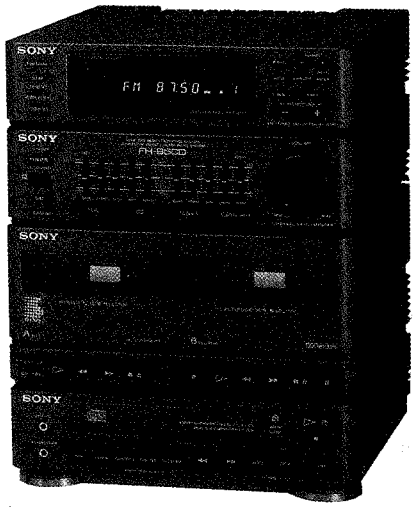
HCD-H5

SERVICE MANUAL



US Model
Canadian Model
AEP Model
E Model

HCD-H5 is the tuner, deck, CD and amplifier section in FH-B5CD.

Dolby noise reduction manufactured under license from Dolby Laboratories Licensing Corporation.
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SPECIFICATIONS

Tuner Section

System: FM stereo, FM/AM superheterodyne tuner

FM tuner section
Tuning range: 87.5 – 108 MHz
Antenna: Telescopic antenna
Antenna terminals: 75 ohms unbalanced
Intermediate frequency: 10.7 MHz

AM tuner section
Tuning range
For US, Canadian model: MW: 530 – 1,710 kHz
For Italian model: MW: 522 – 1,611 kHz; LW: 144 – 288 kHz
For AEP, WG and EE model: MW: 531 – 1,602 kHz; LW: 153 – 279 kHz
For E, EA and AUS model: MW: 531 – 1,602 kHz; SW: 5.95 – 17.9 MHz
Antenna: AM loop antenna, External antenna terminals
Intermediate frequency: 450 kHz

Amplifier Section

AUDIO POWER SPECIFICATIONS
POWER OUTPUT AND TOTAL HARMONIC DISTORTION:
With 16 ohm loads, both channels driven, from 60 Hz – 20 kHz; rated

CD Section	Model Name Using Similar Mechanism		HCD-H7/H1500
	CD Mechanism Name		CDM13A-5BD3
	Base Unit Name		BU-5BD3
DECK Section	Model Name Using Similar Mechanism		New
	Tape Transport Mechanism Type	DECK A	TCM-180VA-N2
		DECK B	TCM-180VB-N2

16 watts per channel minimum RMS power, with no more than 1% total harmonic distortion from 250 milliwatts to rated output.

Continuous RMS power output: 20 + 20 watts (6 ohms at 1 kHz, 5% THD)
Peak music power output
(for the models other than AEP, WG, IT and EE): 200 watts (6 ohms)
Inputs: MIX MIC (minijack): sensitivity 1 mV, impedance 600 ohms
For AEP, WG, IT and EE model: PHONO (phono jack): sensitivity 5 mV, impedance 47 kilohms
For US, Canadian, E, EA and AUS model: AUX/VIDEO (phono jack): sensitivity 400 mV, impedance 47 kilohms

— continued on next page —

MICROFILM

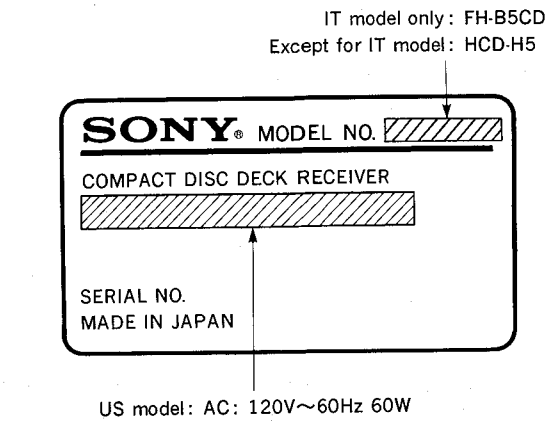
COMPACT DISC DECK RECEIVER

SONY

SECTION 1
SERVICING NOTES

MODEL IDENTIFICATION

— Specification Labels —



US model: AC: 120V~60Hz 60W
Canadian model: AC: 120V~60Hz 80W
AEP, WG, EE model: AC: 220V~50/60Hz 60W
IT model: AC: 220V~50Hz 60W
E, EA, AUS model: AC: 110—120/220—240V~50/60Hz 60W

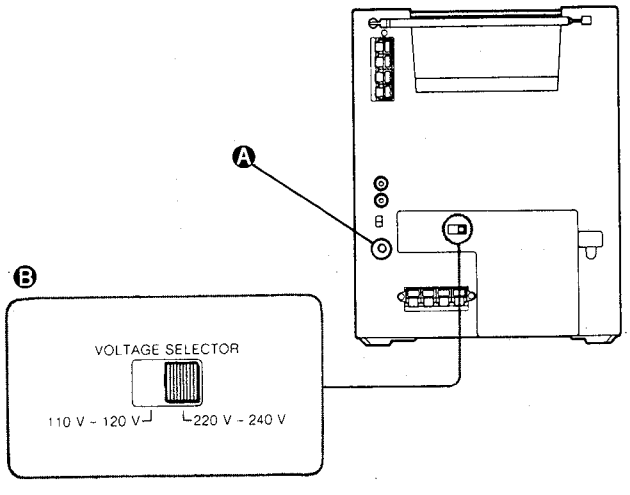
On operating voltage

Before operating the stereo system, check that the operating voltage of your system is identical with the voltage of your local power supply. Ⓐ

US Canadian model	120V AC, 60Hz
AEP, WG, EE model	220V AC, 50/60Hz
IT model	220V AC, 50Hz
E, EA, AUS model	110—120, 220—240V AC adjustable, 50/60Hz

On operation

- If the system do not operate due to power noise, press the system reset button at the rear. The system will resume operation. Ⓑ
  At this time, the system returns to the factory-set mode. Please set the clock, timer, or store stations again.



SAFETY CHECK-OUT

After correcting the original service problem, perform the following safety check before releasing the set to the customer:
Check the antenna terminals, metal trim, "metallized" knobs, screws, and all other exposed metal parts for AC leakage. Check leakage as described below.

LEAKAGE TEST

The AC leakage from any exposed metal part to earth ground and from all exposed metal parts to any exposed metal part having a return to chassis, must not exceed 0.5 mA (500 microampers). Leakage current can be measured by any one of three methods.

1. A commercial leakage tester, such as the Simpson 229 or RCA WT-540A. Follow the manufacturers' instructions to use these instruments.
2. A battery-operated AC milliammeter. The Data Precision 245 digital multimeter is suitable for this job.
3. Measuring the voltage drop across a resistor by means of a VOM or battery-operated AC voltmeter. The "limit" indication is 0.75 V, so analog meters must have an accurate low-voltage scale. The Simpson 250 and Sanwa SH-63Trd are examples of a passive VOM that is suitable. Nearly all battery operated digital multimeters that have a 2 V AC range are suitable. (See Fig. A)

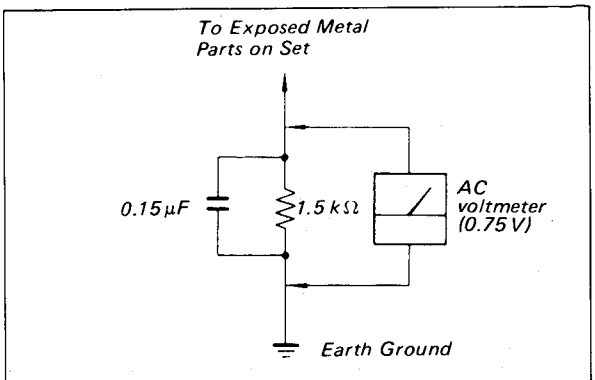


Fig. A. Using an AC voltmeter to check AC leakage.

PROTECTION OF EYES FROM LASER BEAM DURING SERVICING

This set employs a laser. Therefore, be sure to follow carefully the instructions below when servicing.

CAUTION

Use of controls or adjustments or performance of procedures other than those specified herein may result in hazardous radiation exposure.

1. Laser Diode Properties
   - Material: GaAlAs
   - Wavelength: 780 nm
   - Emission Duration: continuous
   - Laser Output Power: less than 44.6 μW*

     * This output is the value measured at a distance of 200 mm from the objective lens surface on the Optical Pick-up Block.

2. During service, do not take the Optical Pick-up Block apart, and do not adjust the APC circuit. If there is a breakdown in the APC circuit (including laser diode), replace the entire Optical Pick-up Block (including APC board).

BESKYTTELSE AF ØJNE MOD LASERSTRÅLING UNDER SERVICE

I dette apparat anvendes laserlys. Derfor skal nedenstående instruktioner nøje følges under service.

Følg iøvrigt instruktionerne i servicemanualen.

ADVARSEL!!

Under service må øjnene ikke komme nær objektiv-linsen på den optiske pick-up enhed. I tilfælde af at det er nødvendigt at kontrollere udsendelsen af laserlys, skal det ske i en afstand af mere end 25 cm fra den optiske pick-up.

1. Laser-didoe data
   - Materiale: GaAlAs
   - Bølgelængde: 780 nm
   - Udstråling: Kontinuerlig
   - Laseroutput: Max. 0,4 mW*

     * Målt i 1,6 mm afstand fra overfladen af objektiv-linsen pa den optiske pick-up enhed.

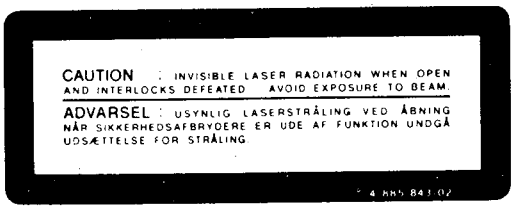
   - Klassifikation: Klasse IIIb.

2. Adskil aldrig den optiske pick-up enhed under service, og juster ikke APC kredsløbet (Automatic Power Control). Hvis APC kredsløbet (incl. laser-dioden) bryder ned, skal hele den optiske pick-up enhed (incl. APC printkortet) udskiftes.

LASER ADVARSEL MÆRKNING

Følgende mærkning findes indvendig i apparatet:

1. Advarsel Mærkning


CAUTION : INVISIBLE LASER RADIATION WHEN OPEN AND INTERLOCKS DEFEATED AVOID EXPOSURE TO BEAM
ADVARSEL : USYNLIG LASERSTRÅLING VED ÅBNING NÅR SIKKERHEDSAFBRYDERE ER UDE AF FUNKTION UNDGÅ UDSÆTTELSE FOR STRÅLING

VAROITUS: Laite sisältää, laserdiodin, joka lähettää (näkymätöntä) silmille vaarallista lasersateilyä.

Setting the Clock

Example: Set to 9:25 in the morning.
When the AC power cord is connected, the display shows:
0: 00 for AEP, WG, IT and EE model
AM0: 00 for US, Canadian, E, EA and AUS model.

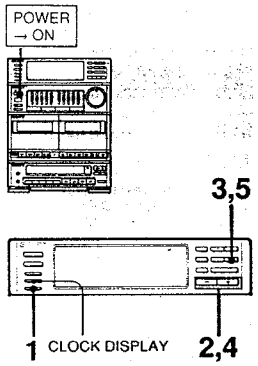
1 Press CLOCK SET.

2 Set the hour with PRESET/TIMER +/– buttons

3 Press NEXT/ENTER.

4 Set the minute with PRESET/TIMER +/– buttons.

5 Press NEXT/ENTER.
The clock starts operating.



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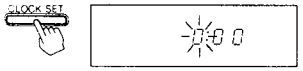

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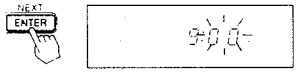

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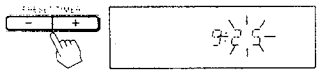


5

Information on the time

AEP, WG, IT and EE model
time in 24-hour cycle.
US, Canadian, E, EA and AUS model
time in 12-hour cycle.
AM 0:00 = midnight
PM 0:00 = noon

When a power interruption occurs

The power is backed up for approximately 5 minutes. If the power is recovered within 5 minutes, there is no need to reset the clock and timer. If it is longer than 5 minutes, both the clock and timer settings are erased, and "0:00" will flash on the display.

To check the present time while using the system

Press CLOCK DISPLAY.
The time display disappears after a few seconds.

Tuning in Automatically

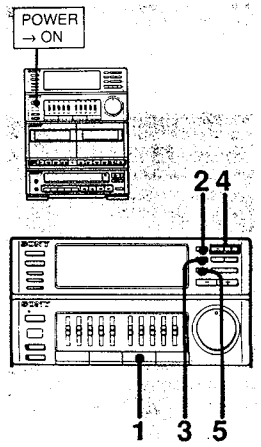
1 Press TUNER.

2 **Press BAND repeatedly until the desired band appears.**
As you press BAND, the band changes as follows:
US, Canadian model:
FM→SW→AM
AEP, WG, IT and EE model:
FM → MW → LW
E, EA and AUS model:
FM → SW → MW

3 Press AUTO.
Make sure that AUTO appears in the display.

4 Select the station with TUNING + or –.

5 **For receiving FM stations with the stereo effect, press ST/MUTE so that MUTING appears.**



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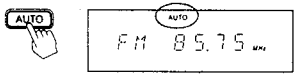

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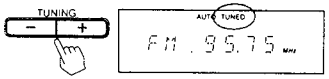

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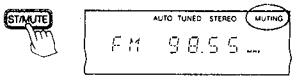


Tuning in Manually

1 Press TUNER.

2 Select band by pressing BAND.

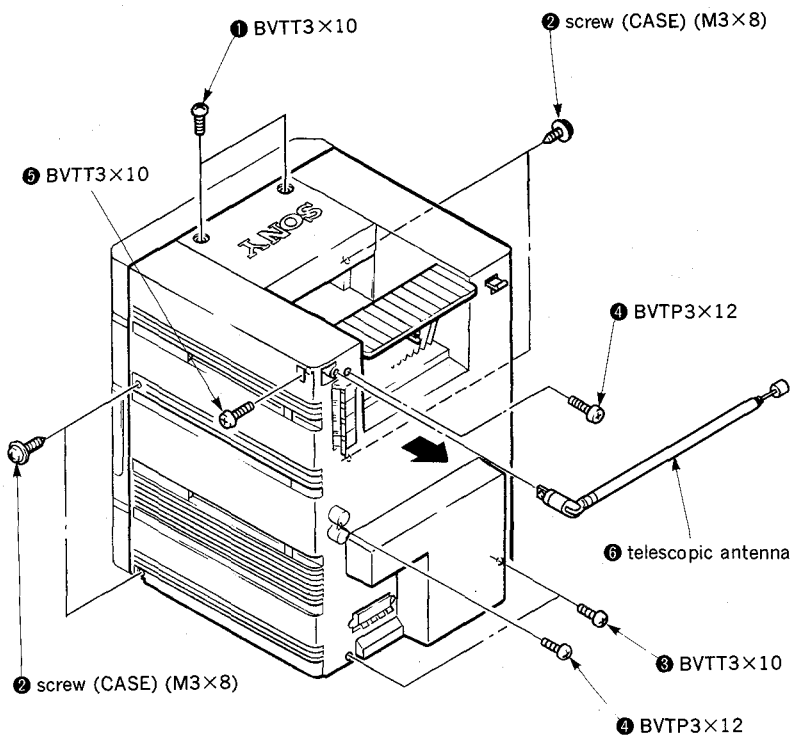
3 Press AUTO so that AUTO disappears from the display.

4 Select station with TUNING + or –.

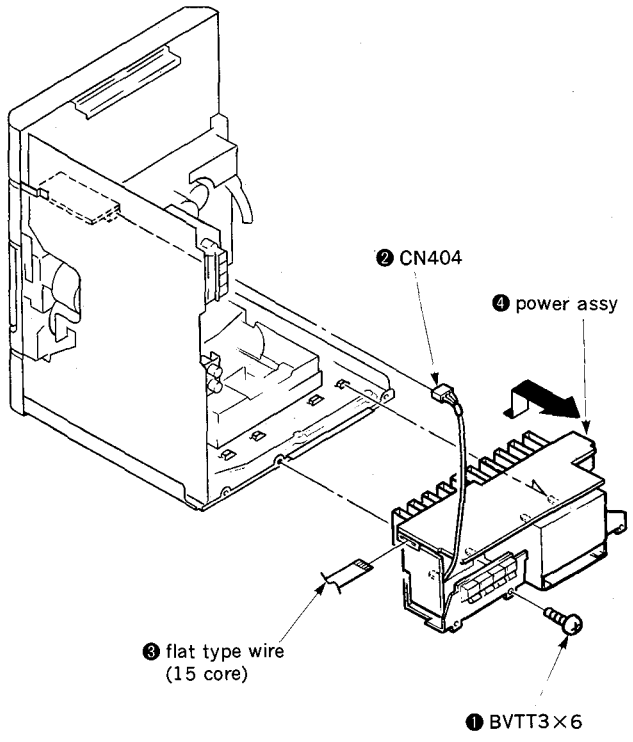
SECTION 3
DISASSEMBLY

Note: Follow the disassembly procedure in the numerical order given.

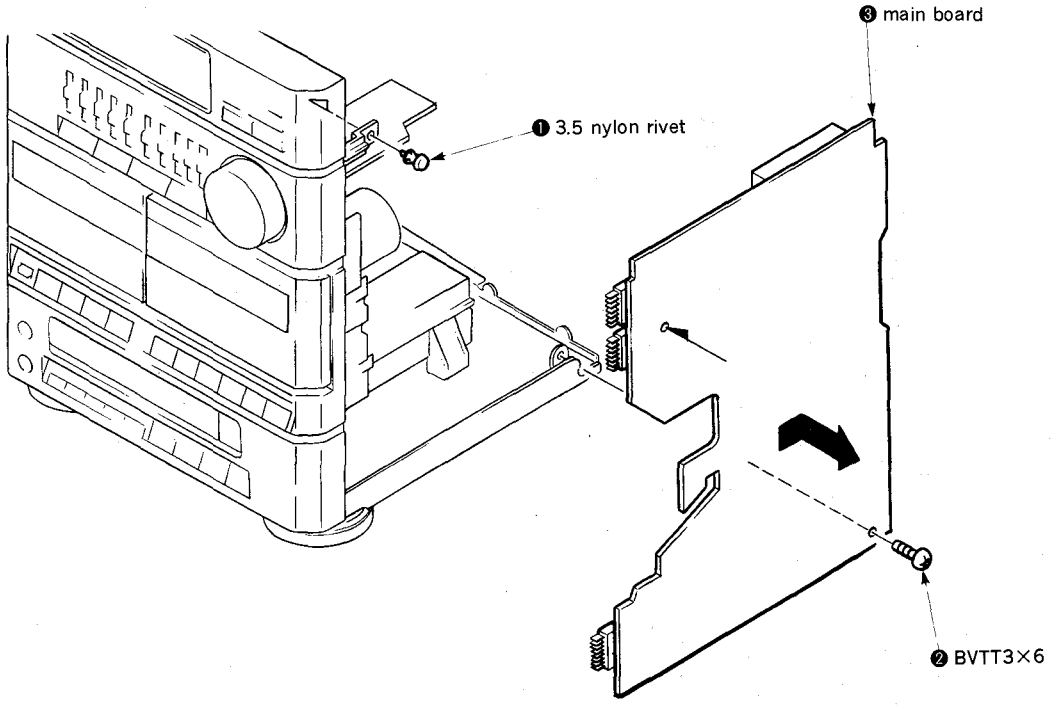
3-1. CASE ASSY



3-2. POWER ASSY



3-3. MAIN BOARD



SECTION 4
MECHANICAL ADJUSTMENTS

PRECAUTION

1. Clean the following parts with a denatured alcohol-moistened swab:
   record/playback head — pinch roller
   erase head — rubber belt
   capstan — idler
2. Demagnetize the record/playback head with a head demagnetizer.
   (Head demagnetizer do not approach for the erase head.)
3. Do not use a magnetized screwdriver for the adjustment.
4. After the adjustments, apply suitable locking compound to the parts adjusted.
5. The adjustment should be performed with the rated power supply voltage unless otherwise noted.

• Torque Measurement

Torque	Torque meter	Meter reading
Forward	CQ-102C	35 to 60g•cm (0.49 to 0.83oz•inch)
Forward back tension	CQ-102C	25 to 4.5g•cm (0.035 to 0.062oz•inch)
Forward, Reverse	CQ-102B	75 to 150g•cm (1.04 to 2.08oz•inch)

SECTION 5
ELECTRICAL ADJUSTMENTS

DECK SECTION

1. The adjustment should be performed in the publication. (Be sure to make playback adjustment at first.)
2. The adjustment and measurement should be performed for both L-CH and R-CH.
   • Switch position
   DOLBY NR switch: OFF

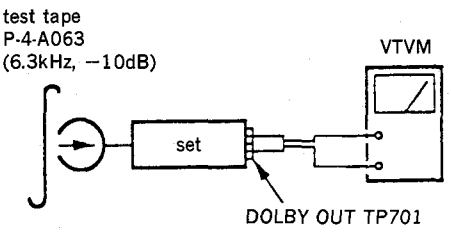
• Test Tape

Tape	Contents	Use
P-4-A063	6.3kHz, −10dB	Head Azimuth Adjustment
WS-48T	3kHz, 0dB	Tape Speed Adjustment

Record/Playback Head Azimuth Adjustment

Procedure:

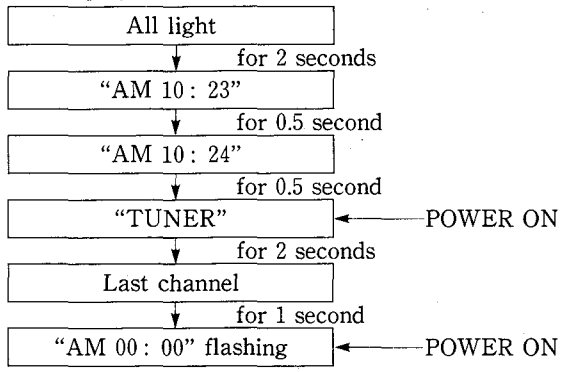
1. Mode: playback



• Timer Test Mode

When BAND, SHIFT and PRESET/TIMER+buttons are pressed at the same time the following time test operation is performed. After the operation, it becomes in the system reset mode. Take care that the frequency preset to the tuner is initialized.

1) POWER OFF
2) Timer set
   Clock — AM10: 23
   Timer ON — AM10: 24
   Timer OFF — AM10: 31
   Function — TUNER
3) FL tube display (FLT501)



4) Finish

• Preset Frequency in Restting

When pressing the system reset button (S701) of the rear side of the unit, the following frequency is preset to the tuner part. When the system reset is performed in repairing, be sure to return to the frequency set by the user.

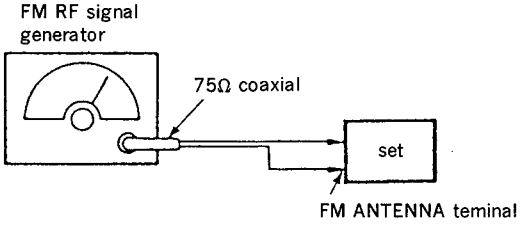
FM		US, Canadian model MW tuning interval: 10k (9k) AM		AEP, WG, IT, EE model ( ): Italian model MW		LW	
A1	87.5MHz	A6	530(531)kHz	A6	531(522)kHz	B1	153(144)kHz
A2	88.0MHz	A7	620(621)kHz	A7	603kHz	B2	162kHz
A3	98.0MHz	A8	1050(1053)kHz	A8	999kHz	B3	216kHz
A4	106.0MHz	A9	1490(1485)kHz	A9	1404kHz	B4	270kHz
A5	108.0MHz	A10	1710kHz	A10	1602(1611)kHz	B5	279(288)kHz

FM		E, EA, AUS model MW tuning interval: 9k (10k) MW		SW	
A1	87.5MHz	A6	531(530)kHz	B1	5.95MHz
A2	88.0MHz	A7	603(620)kHz	B2	7.00MHz
A3	98.0MHz	A8	999(1050)kHz	B3	12.00MHz
A4	106.0MHz	A9	1404(1490)kHz	B4	17.00MHz
A5	108.0MHz	A10	1602(1710)kHz	B5	17.90MHz

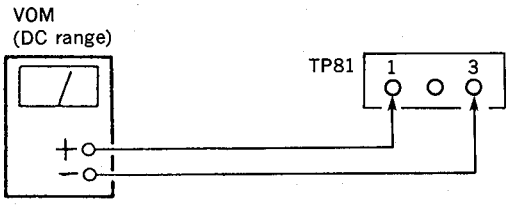
TUNER SECTION

FM SECTION ADJUSTMENTS

Setting :



Carrier frequency : 98MHz
Modulation : 1kHz, 75kHz deviation (US, Canadian, E, EA, AUS)
1kHz, 40kHz deviation (AEP, WG, IT, EE)



FM Discriminator Alignment (NULL Check)

Band : FM

Procedure :

1. Supply a 1mV (60dBμ) 98MHz signal from the ANTENNA terminal.
2. Tune the to 98MHz.
3. Adjust IFT82 for 0V reading on the VOM.

Note : FM tuned indication lighting level adjustment should be made after FM discriminator alignment.

FM Tuned Indication Lighting Level Adjustment

Band : FM

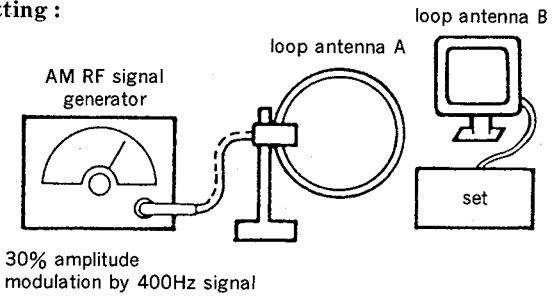
Procedure :

1. Supply a 32μV (30dBμ) 98 MHz signal from the ANTENNA terminal.
2. Tune the set to 98MHz.
3. Adjust RV81 so that the TUNED light up.

Adjustment Location : main board

AM SECTION ADJUSTMENTS

Setting :



MW (AM) Tuned Indication Lighting Level Adjustment

Band : MW or AM

Procedure :

1. Set loop antenna A so that the looP antenna B input level becomes 0.45mV (53dBμ).
2. Tune the set to 1,490kHz (US, Canadian) or 1,404kHz (AEP, WG, IT, EE, E, EA, AUS).
3. Adjust the RV82 so that the TUNED light up.

SW OSC Voltage Adjustment (E, EA, AUS model)

Band : SW

Procedure :

1. Connect the VOM to TP (OSC).
2. Tune the set to 5.95MHz.
3. Adjust T2 for 0.9 to 1.1V reading on the VOM.
4. Tune the set to 17.90MHz.
5. Adjust CT22 for 8.3 to 8.7V reading on the VOM.

SW Tracking Adjustment (E, EA, AUS model)

Band : SW

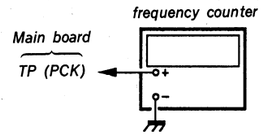
Procedure :

1. Connect the VOM to speaker terminal.
2. Adjust for a maximum reading on VTVM.

Signal generator and set frequency	Adjustment part
7.0MHz	T1
17.0MHz	CT21

RF PLL Free-run Frequency Check

Procedure :



1. Turn POWER switch on.
2. Put disc (YEDS-18) in and playback.
3. Confirm that reading on frequency counter is 4.3218MHz.

Focus/Tracking Gain Adjustment

A frequency responce analyzer is necessary in order to perform this adjustment exactly.

However, this gain cas a margin, so even if it is slightly off. there is no problem. Therefore, do not perform this adjustment.

Focus/tracking gain determines the pick-up follow-up (vertical and horizontal) relative to mechanical noise and mechanical shock when the 2-axis device operate.

However, as these reciprocate, the adjustment is the point where both are satisfied.

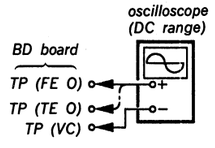
- When gain is raised, the noise when the 2-axis device operates increases.
- When gain is lowered, mechanical shock and skipping occurs more easily.
- When gain adjustment is off, the symptoms below appear.

Symptoms \ Gain	Focus	Tracking
• The time until music starts becmes longer for STOP →▷ PLAY or automatic selection. (⏮, ⏭ buttons pressed.) (Normally takes about 1 seconds.)	low	low or high
• Music does not start and disc continues to rotate for STOP →▷ PLAY or automatic selection. (⏮, ⏭ buttons pressed.)	—	low
• Sound is interrupted during PLAY. Or time counter display stops progressing.	—	low
• More noise during 2-axis device operation.	high	high

The following is a simple adjustment method.

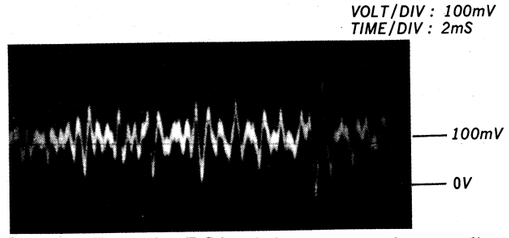
—Primary Adjustment—

Note : Since exact adjustment cannot be performed, remember the positions of the controls before performing the adjustment.
If the positions after the primary adjustment are only a little different, returs the controls the original position.



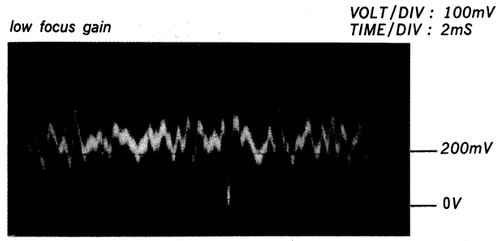
Procedure :

1. Keep the set horizontal.
   If the set is not horizontal, this adjustment cannot be performed due to the gravity against the 2-axis device.
2. Insert disc (YEDS-18) and press ▷ PLAY button.
3. Connect oscilloscope to TP (FEO) and TP (VC) on BD board.
4. Adjustment RV102 on digital board so that the waveform is as shown in the figure below. (focus gain adjustment)



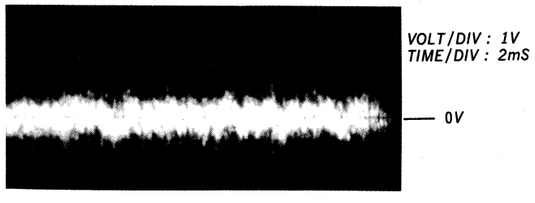
- Incorrent Examples (DC level changes more than on adjusted waveform)

low focus gain



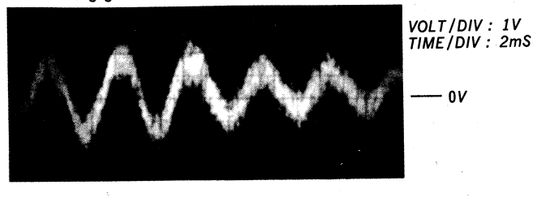
high focus gain

5. Connect oscilloscope to TP (TEO) and TP (VC) on BD board.
6. Adjusted RV101 on digital board so that the waveform is as shown the flgure below. (tracking gain adjustment)

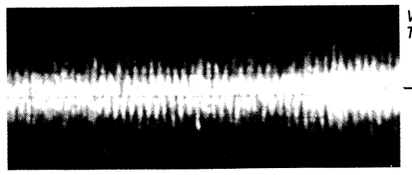


- Incorrect Examples (fundamentia wave appears)

low tracking gain

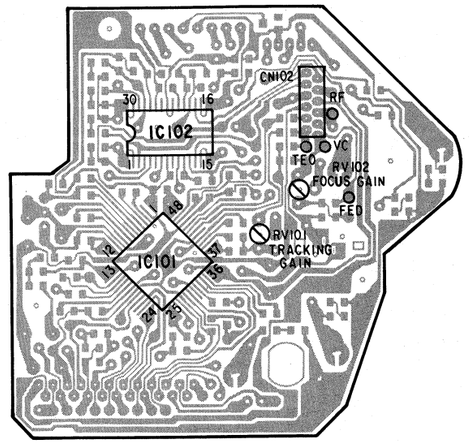


high tracking gain
(high fandamential wave than for low gain)

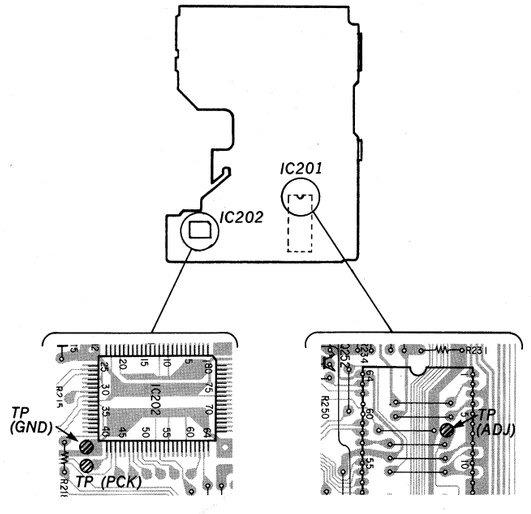


Adjustment Locations :

BD board — conductor side —



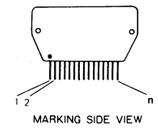
main board — component side —



SECTION 6
DIAGRAMS

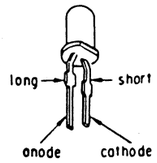
6-1. SEMICONDUCTOR LEAD LAYOUTS

STK-4122MK2



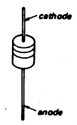
2SK246-GR3
2SK246-Y

SEL2210W-D
SEL4214R-LC05
SEL4914R-LC05



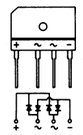
DTA114ES
DTA144ES
DTC114ES
DTC144ES
2SC2603-EF
2SC2724-CD
2SC3622A-LK

HZS6B1L
HZS7B3L
HZS7C2L
UZ-4.7BSC
UZL-24L
UZL-9H1
1SS120
11ES2

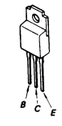


DTC114TS
2SA1175-HFE

RBA-402



2SB1187-EF
2SD1761-EF

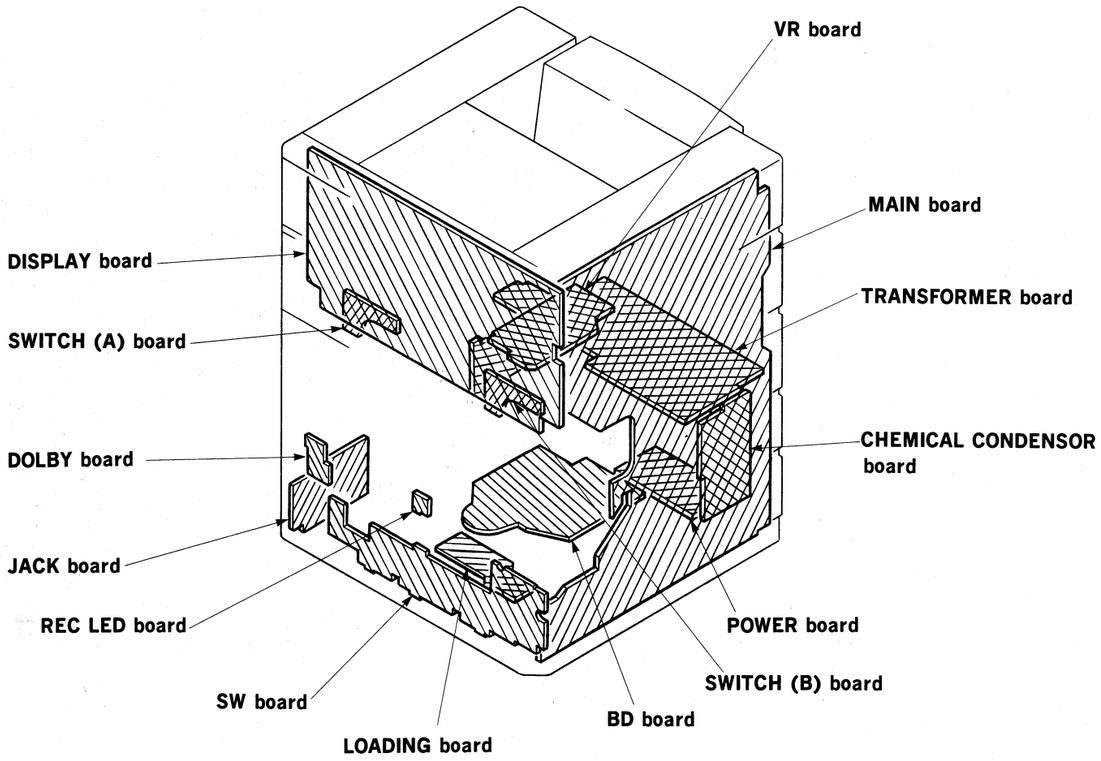


UZP-5.1BC

2SC3112-B
2SD1387
2SD1616A-K

GL-1EG112-CD
GL-1HY112-CD

6-2. CIRCUIT BOARDS LOCATION



• Semiconductor Location

Ref. No.	Location	Ref. No.	Location	Ref. No.	Location
D21(※1)	C-6	Q1(※2)	D-5	Q786	E-14
D81	F-9	Q1(※3)	D-9	Q787	E-14
D201	F-16	Q2(※4)	E-9	Q789	D-13
D205	D-15	Q3(※2)	E-6	Q790	D-13
D206	H-19	Q3(※3)	E-10	Q791	D-14
D207	H-20	Q4(※2)	E-6	Q999	H-15
D208	I-21	Q4(※3)	E-10		
D209	I-21	Q5(※1)	B-5		
D210	J-21	Q5(※3)	B-9		
D211	J-23	Q6(※1)	E-6		
D300	I-6	Q6(※3)	E-10		
D601	C-16	Q7(※1)	D-6		
D701	D-13	Q7(※3)	D-10		
D721	C-18	Q8(※1)	D-6		
D735	H-11	Q8(※3)	D-10		
D736	G-15	Q9(※1)	B-5		
D737	G-15	Q9(※3)	B-9		
D738	G-15	Q10(※1)	B-6		
D739	G-15	Q51(※2)	D-4		
D785	E-13	Q51(※3)	D-8		
D786	E-13	Q52(※2)	D-4		
D787	E-13	Q52(※3)	D-8		
D788	D-14	Q53(※3)	D-7		
D789	D-13	Q54(※3)	D-7		
D790	C-14	Q101	I-8		
D791	D-13	Q101(BD)	F-21		
D792	D-13	Q102	H-8		
D793	F-13	Q103	G-10		
		Q104	G-9		
IC51(※2)	E-4	Q201	E-15		
IC51(※3)	E-8	Q231	F-17		
IC81	F-10	Q232	E-17		
IC101(BD)	E-21	Q233	F-16		
IC102(BD)	D-21	Q234	F-17		
IC201	D-17	Q252	E-15		
IC202	I-17	Q253	E-16		
IC221	G-17	Q601	F-13		
IC222	F-18	Q603	C-16		
IC223	F-17	Q651	F-13		
IC253	F-15	Q721	B-17		
IC601	C-15	Q722	B-16		
IC602	E-13	Q723	B-18		
IC621(※3)	C-12	Q731	F-12		
IC661	C-17	Q732	E-12		
IC701	E-12	Q735	H-11		
IC702	D-12	Q736	H-11		
IC703	E-12	Q737	H-12		
IC704	C-13	Q738	H-10		
IC705	F-12	Q739	G-15		
IC706	I-10	Q740	G-15		
IC785	D-13	Q781	F-12		
IC999	H-6	Q785	D-14		

※1 : Used on E, EA and AUS model.
※2 : Used on US, CND, E, EA and AUS model.
※3 : Used on AEP, WG, IT and EE model.
BD : Used on BD board.
※4 : Used on WG and IT model.

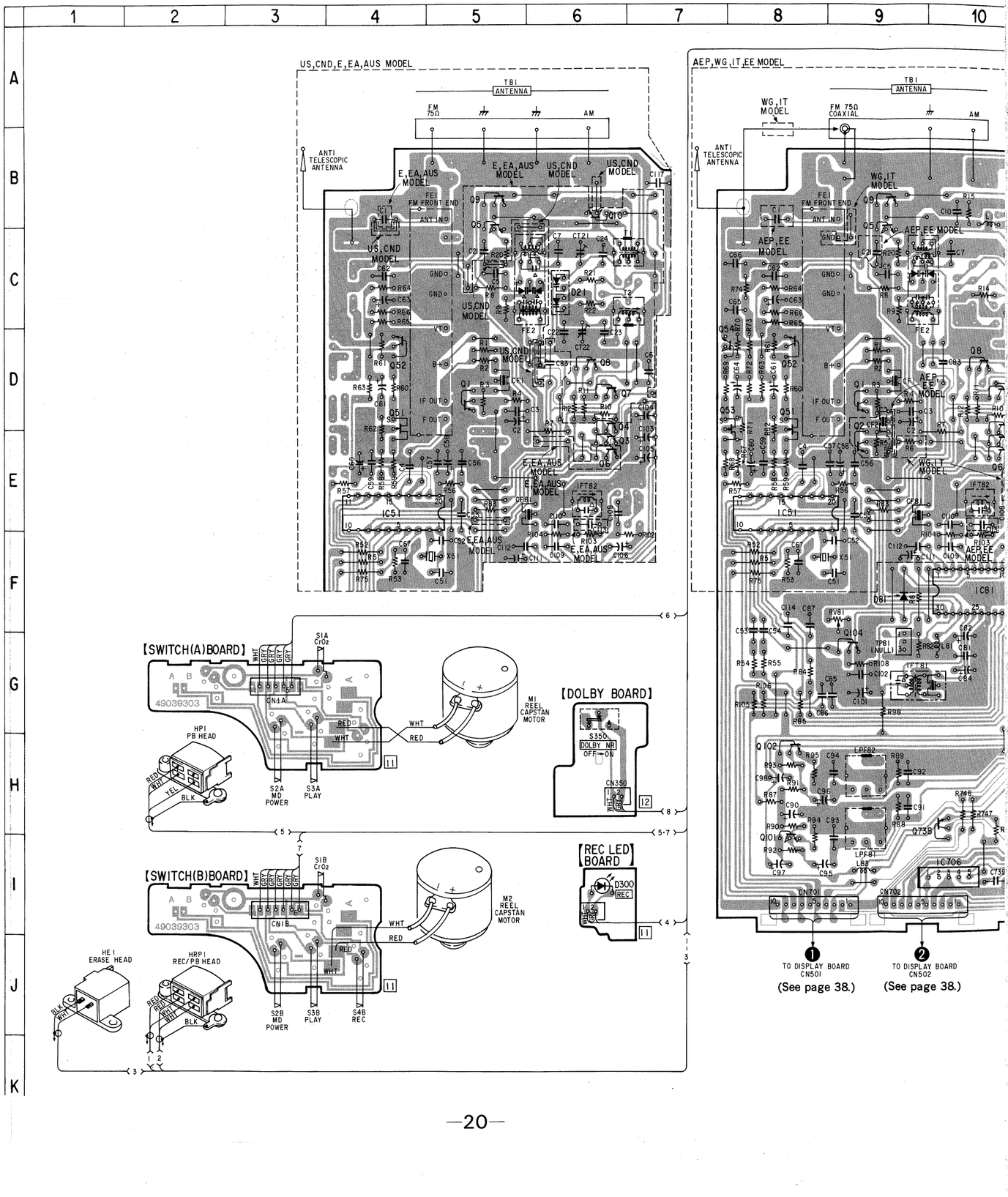
Note:

- ○—— : parts extracted from the component side.
- —— : parts extracted from the conductor side.
- ⊡ indicates side identified with part number.
- ● : Through hole.
- ▒ : Pattern on the side which is seen.
- ▒ : Pattern of the rear side.

• CND : Canadian model
WG : West Germany model
IT : Italian model
EE : East European model
EA : Saudi Arabia model
AUS : Australian model

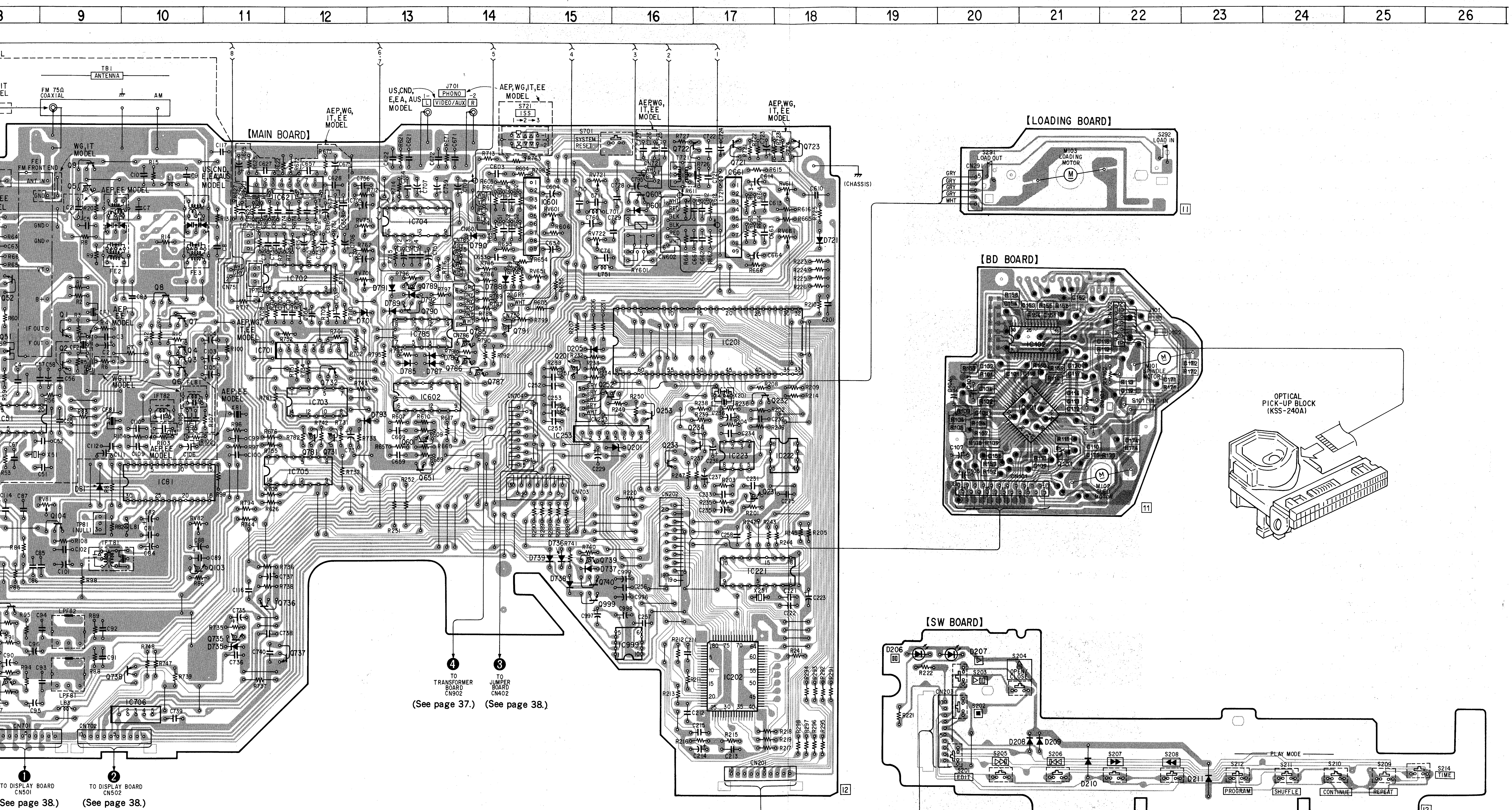
6-3. PRINTED WIRING BOARDS—Tuner/Deck/CD Section—

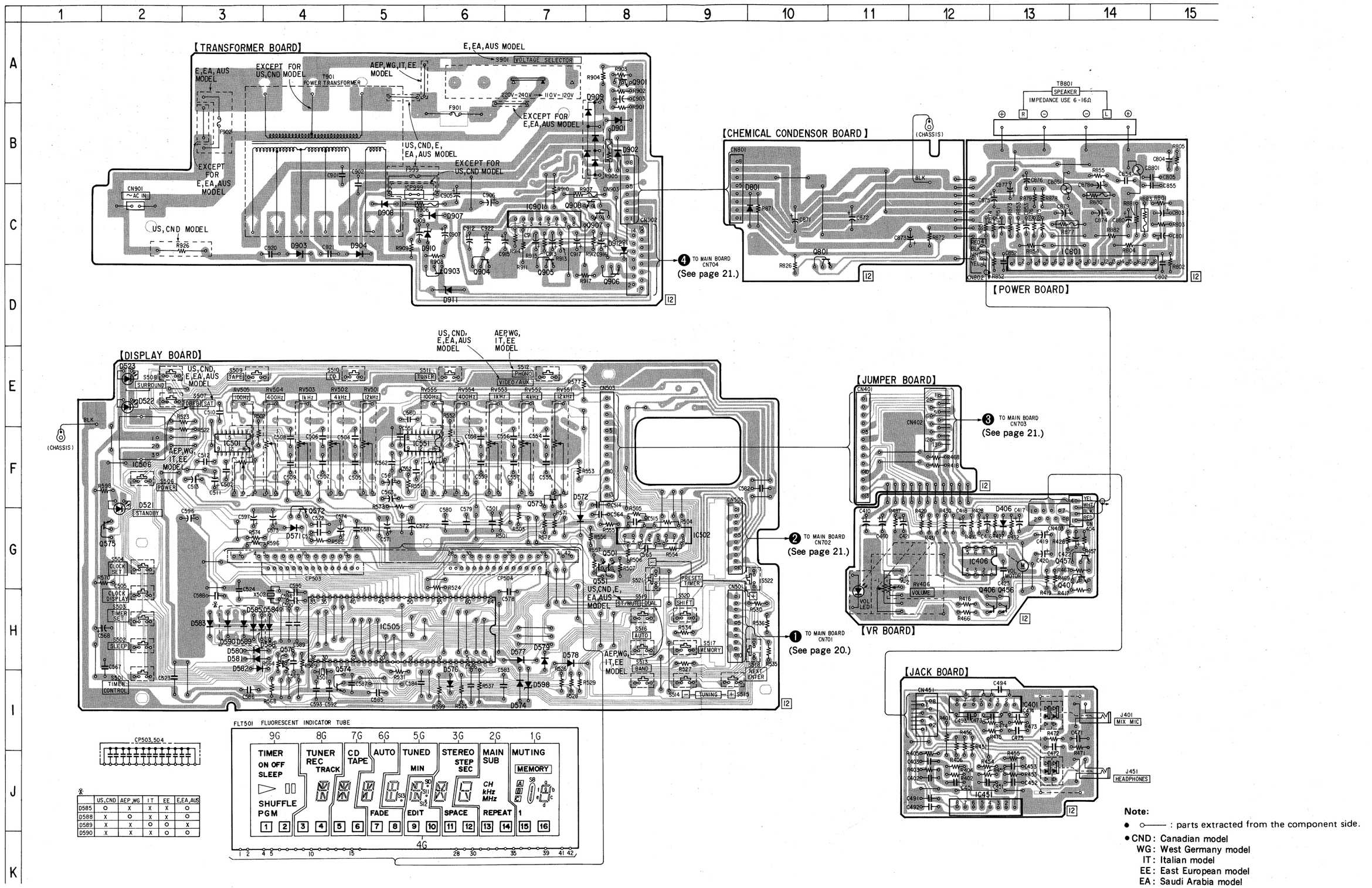
• Refer to page 16 for Semiconductor Lead Layouts.



(See page 38.) (See page 38.)

ead Layouts.


8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26
TB1 ANTENNA
FM 75Ω COAXIAL
AM
【MAIN BOARD】
US,CND, E,EA, AUS MODEL
J701 PHONO VIDEO/AUX
AEP,WG,IT,EE MODEL
S721 ISS
S701 SYSTEM RESET
(CHASSIS)
【LOADING BOARD】
S291 LOAD OUT
S292 LOAD IN
M103 LOADING MOTOR
【BD BOARD】
M101 SPINDLE MOTOR
M102 SLED MOTOR
S101 LIMIT IN
OPTICAL PICK-UP BLOCK (KSS-240A)
【SW BOARD】
S204 OPEN/CLOSE
S201 EDIT
PLAY MODE
S212 PROGRAM
S211 SHUFFLE
S210 CONTINUE
S209 REPEAT
S214 TIME
TO DISPLAY BOARD CN501 (See page 38.)
TO DISPLAY BOARD CN502 (See page 38.)
TO TRANSFORMER BOARD CN902 (See page 37.)
TO JUMPER BOARD CN402 (See page 38.)



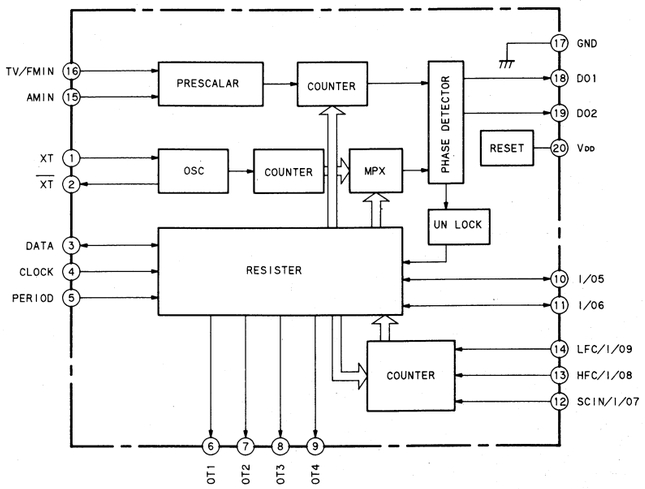
	US,CND	AEP,WG	IT	EE	E,EA,AUS
D585	O	X	X	X	O
D588	X	O	X	X	O
D589	X	X	O	O	X
D590	X	X	X	O	O

Note:

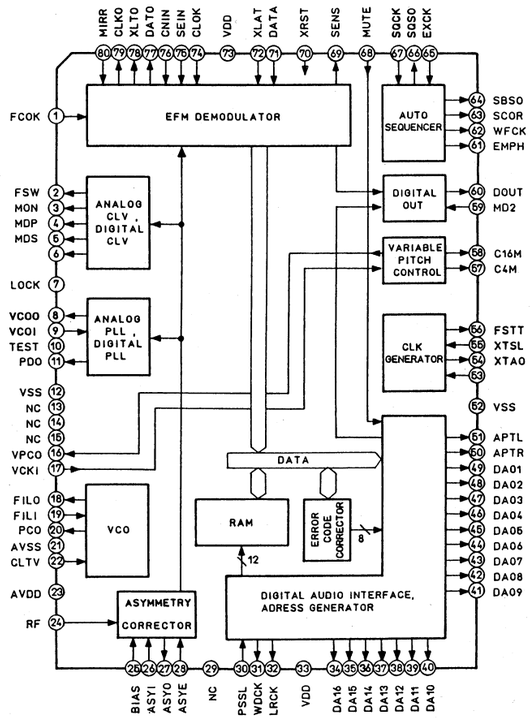
- ○—— : parts extracted from the component side.
- CND : Canadian model
  WG : West Germany model
  IT : Italian model
  EE : East European model
  EA : Saudi Arabia model
  AUS : Australian model

• IC Block Diagrams

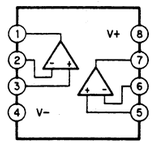
• IC51 TC9217P



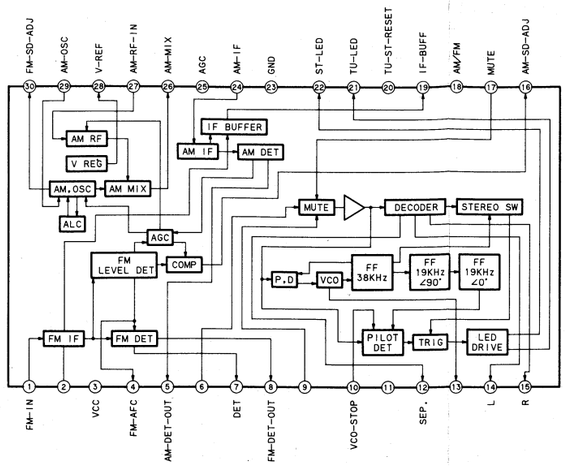
• IC202 CXD2500Q



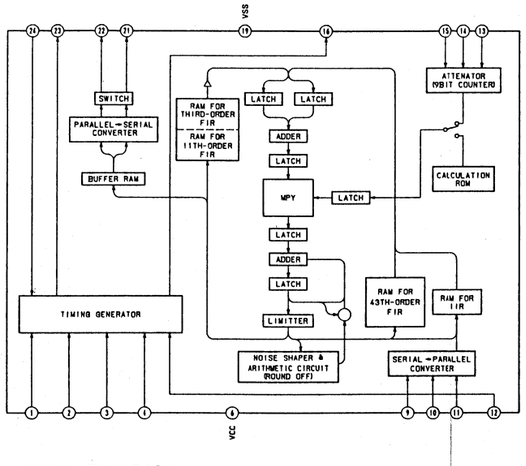
• IC223 M5218AP



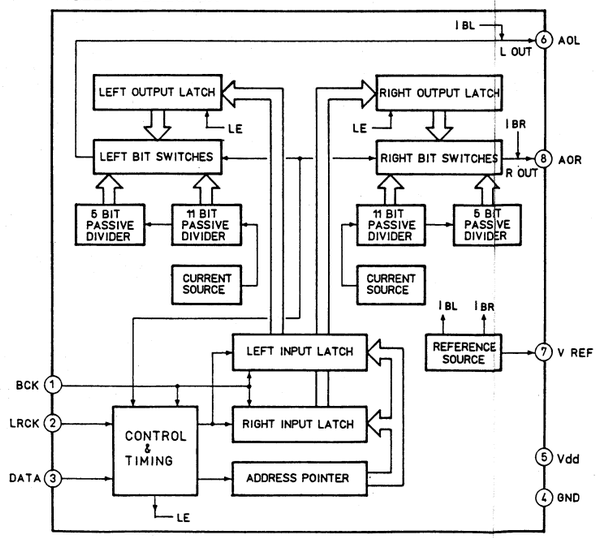
• IC81 LA1851N



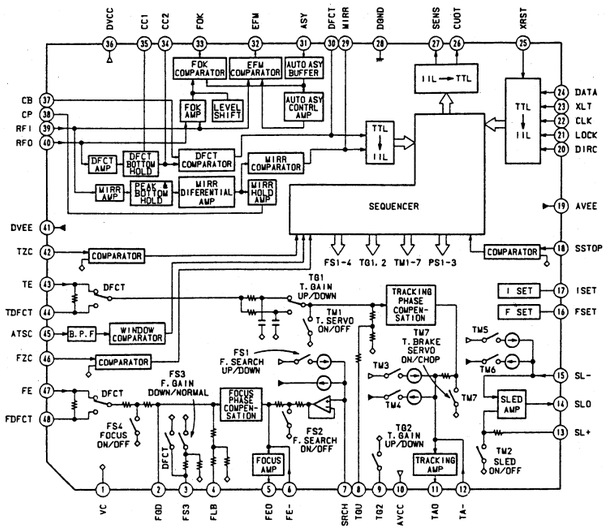
• IC221 CXD2551P



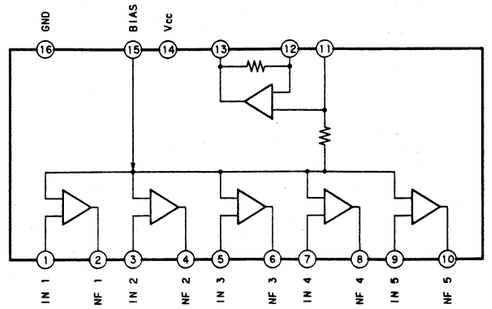
• IC222 TDA1543A



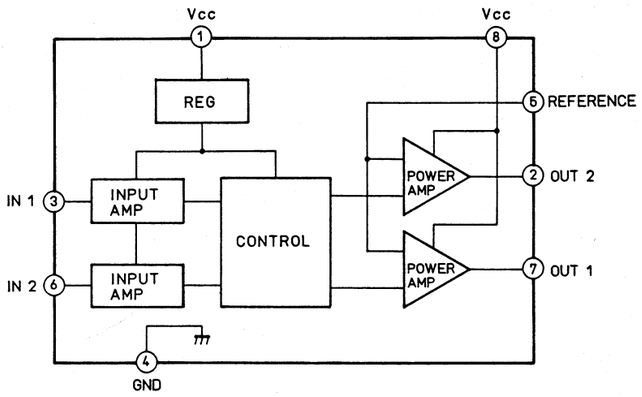
• IC101 CXA1372Q



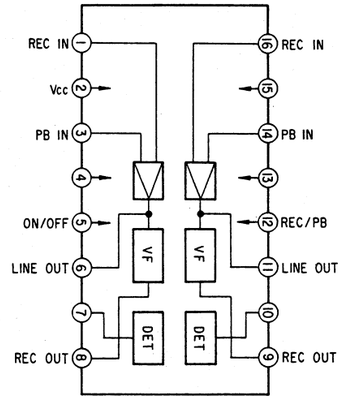
• IC501, IC551 M5226FP



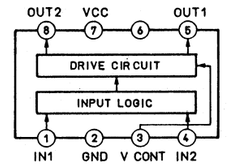
• IC253 M54641L



• IC702 CXA1101P

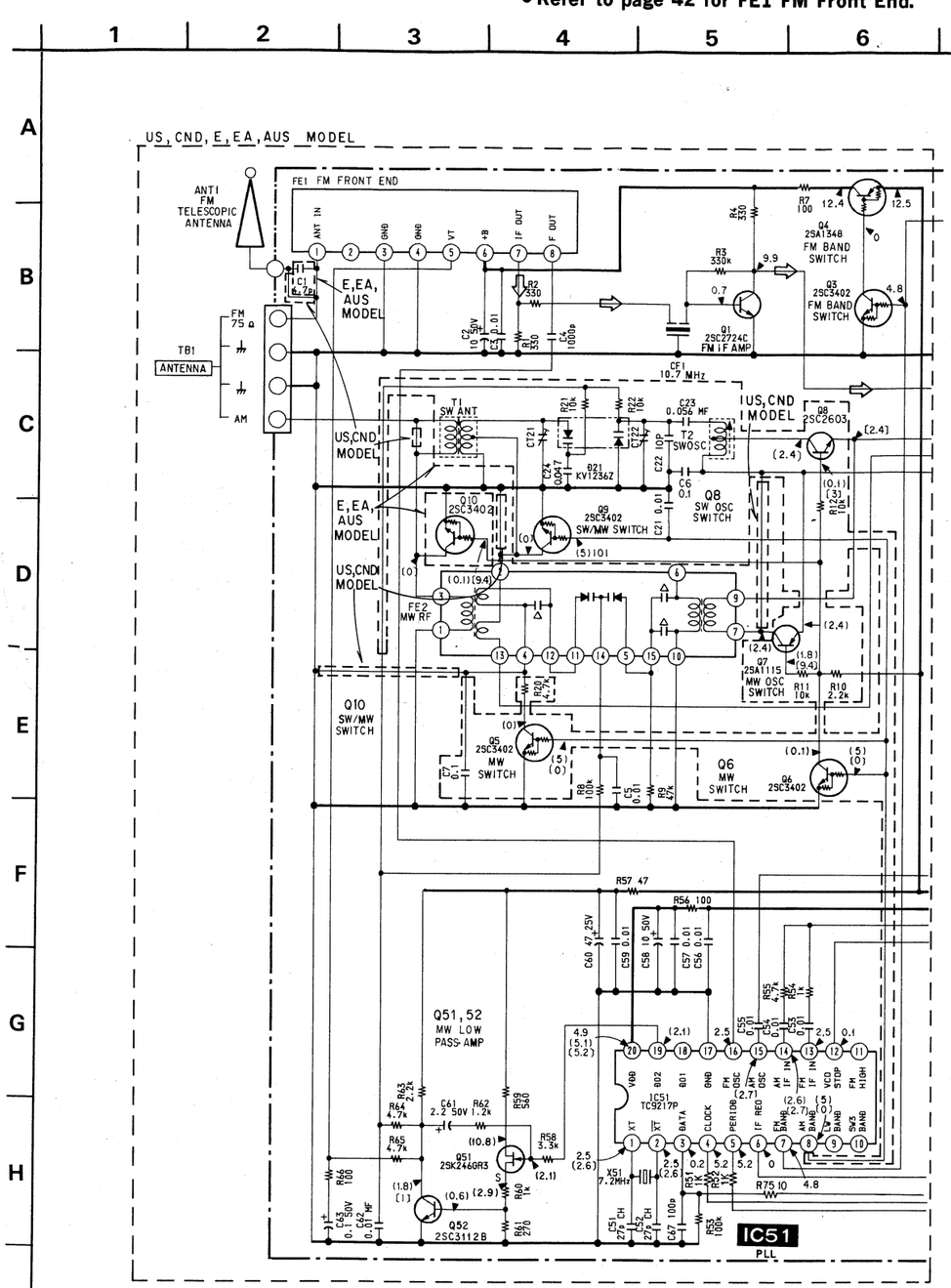


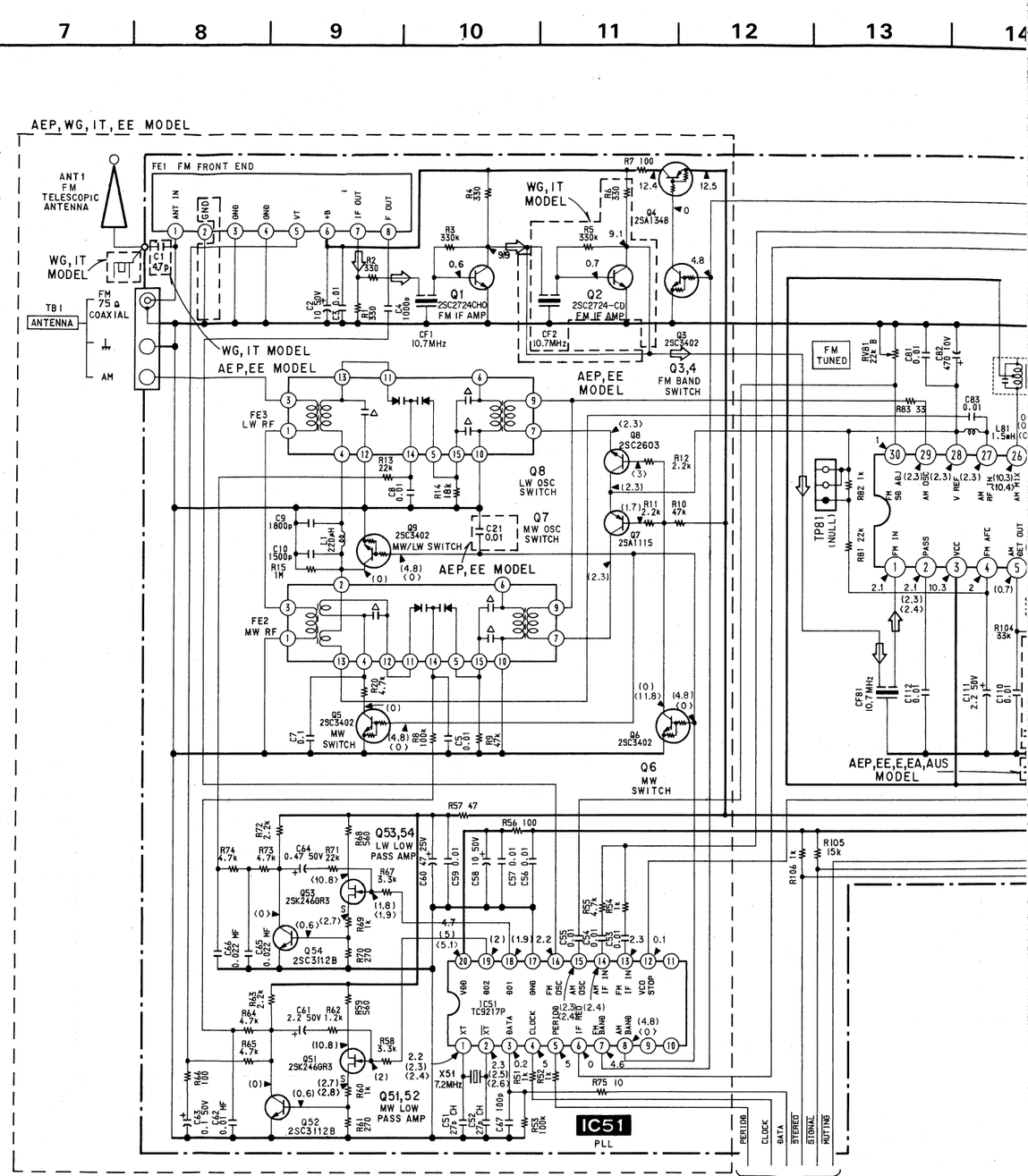
• IC406 LB1639

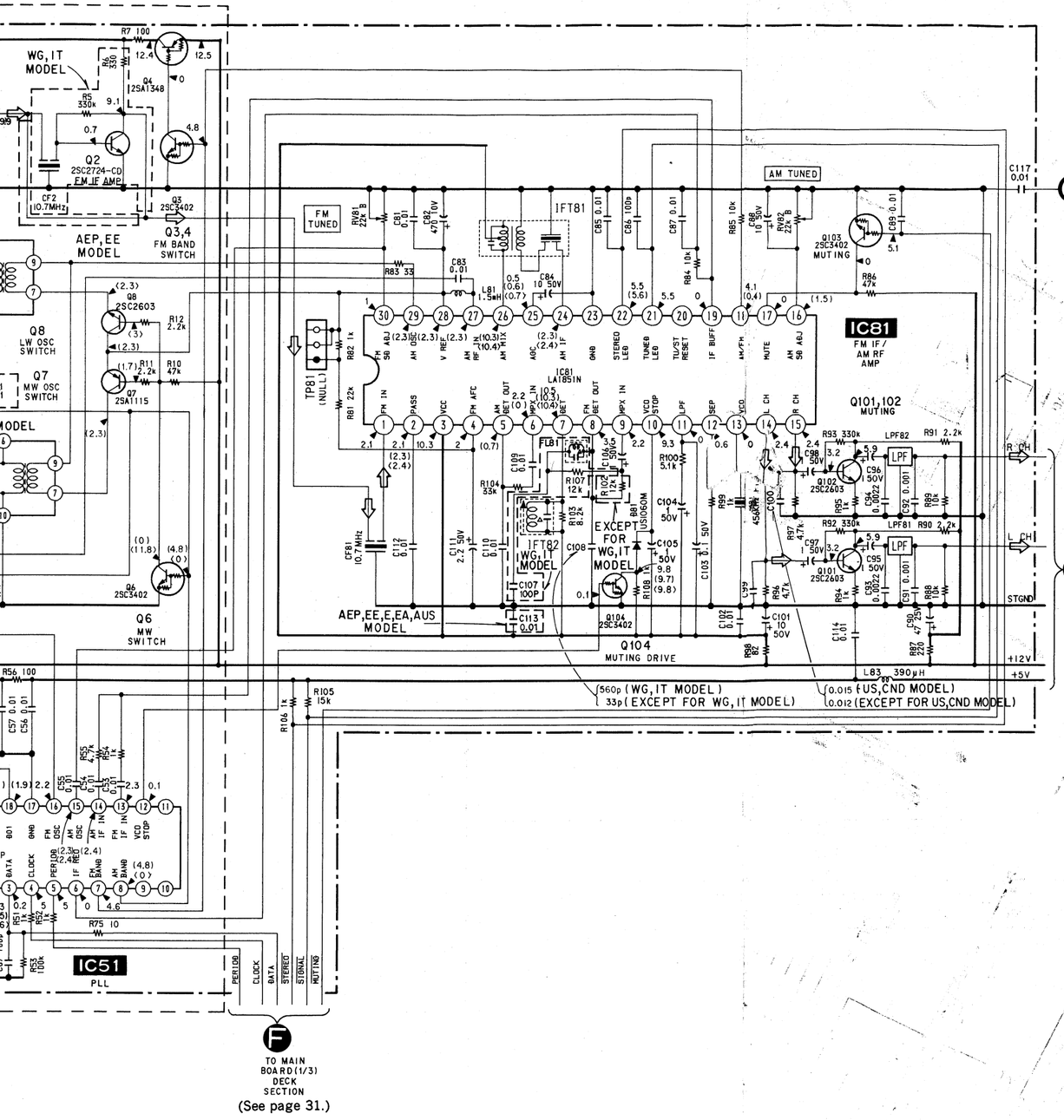


6-4. SCHEMATIC DIAGRAM—Tuner Section—

- Refer to page 39 for IC Block Diagrams.
- Refer to page 42 for FE1 FM Front End.







Note:

- All capacitors are in μF unless otherwise noted. pF: μF
  50WV or less are not indicated except for electrolytic and tantalums.
- All resistors are in Ω and ¼W or less unless otherwise specified.
- ▬▬ : B+ Line.
- ▬ ▬ : B− Line.
- ▭ : adjustment for repair.
- Voltage is dc with respect to ground under no signal (detune) conditions.
  no mark : FM
  ( ) : MW
  < > : LW
  [ ] : SW
- Voltages are taken with a VOM (Input impedance 10MΩ). Voltage variations may be noted due to normal production tolerances.
- Signal path.
  ⇨ : FM

- CND : Canadian model
  WG : West Germany model
  IT : Italian model
  EE : East European model
  EA : Saudi Arabia model
  AUS : Australian model

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6-5. SCHEMATIC DIAGRAM—CD Section— ● Refer to page 39 for IC Block Diagrams.

【MAIN BOARD(1/3)】

IC202 CXD2500Q CD DIGITAL SIGNAL PROCESSOR, CLV SERVO

IC201 μPD75112CW-064 SYSTEM CONTROL

IC253 M54641L LOADING MOTOR DRIVE

【LOADING BOARD】

IC221 DIGITAL FILTER

IC222 D/A CONVERTER

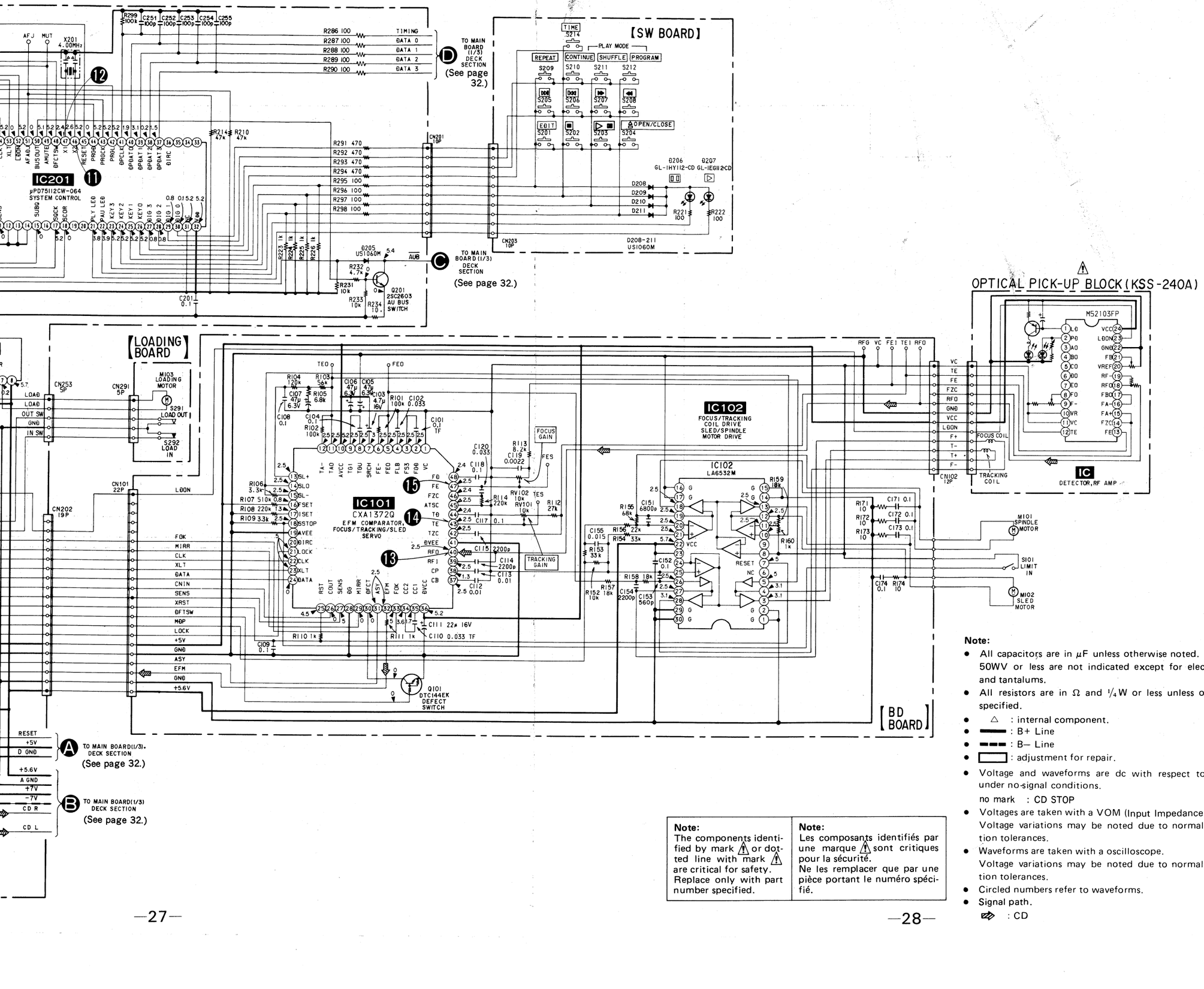
IC223 AUDIO AMP

Q231,232 DE-EMPHASIS

A TO MAIN BOARD(1/3)• DECK SECTION (See page 32.)

B TO MAIN BOARD(1/3) DECK SECTION (See page 32.)

10 11 12 13 14 15 16 17 18 19 20 21 22 23



Note:

- All capacitors are in μF unless otherwise noted. pF: μμF 50WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and 1/4W or less unless otherwise specified.
- △ : internal component.
- ▬▬ : B+ Line
- ▬ ▬ : B– Line
- ▭ : adjustment for repair.
- Voltage and waveforms are dc with respect to ground under no-signal conditions.
  no mark : CD STOP
- Voltages are taken with a VOM (Input Impedance 10MΩ). Voltage variations may be noted due to normal production tolerances.
- Waveforms are taken with a oscilloscope. Voltage variations may be noted due to normal production tolerances.
- Circled numbers refer to waveforms.
- Signal path.
  ⇨ : CD

Note:
The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified.

Note:
Les composants identifiés par une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

6-6. SCHEMATIC DIAGRAM—Deck Section—

• Refer to page 39 for IC Block Diagrams.

【MAIN BOARD(1/3)】

IC601 PB EQ AMP

IC601 (1/2) μPC4570HA-1

IC602 SIGNAL SELECT

IC602 MC14053BCP

Q601,651 TAPE SELECT SWITCH

IC701 SURROUND

IC701 M5218AL

IC661 PB EQ AMP

IC661 (1/2) μPC4570HA-1

IC704 REC AMP

IC704 CXA1298AP

IC785 MC14001BCP DECK CONTROL

IC621 PHONO AMP

IC621 M5218AL

HP1 PB HEAD (DECK A)

HRP1 REC/PB HEAD (DECK B)

HE1 ERASE HEAD (DECK B)

TO MAIN BOARD(1/3) TUNER SECTION (See page 25.)

Q603 RELAY DRIVE

Q721 BIAS CONTROL

Q722 BIAS OSC

Q723 BIAS SWITCH

T721 BIAS OSC

Q791 LED DRIVE

Q787 2SC3402 SWITCH

REC LEVEL (R)

REC LEVEL (L)

PB LEVEL (L)

PB LEVEL (R)

0.012(US,CND,E,EA,AUS MODEL)
0.01 (AEP,WG,IT,EE MODEL)

15k(US,CND,E,EA,AUS MODEL)
56k(AEP,WG,IT,EE MODEL)

AEP,WG, IT,EE MODEL

US,CND, E,EA, AUS MODEL

J701 PHONO VIDEO/AUX

(See page 25.) (See page 24.)

TO MAIN BOARD (1/3)
TUNER SECTION

E
R CH
L CH
+5V
STBY
GND

F
MUTTING
CONTROL
STEREO
RADIO
PERIOD

IC703
SWITCH

Q732
INVERTER

Q731,781
MUTING

IC701
SURROUND

IC701
M5218AL

Q601,651
TAPE SELECT
SWITCH

Q601
2SC3860

Q651
2SC3860

IC702
DOLBY AMP

IC702
CXA1101P

FP702

AEP, WG,
IT, EE
MODEL

IC703
MC14066BCP

Q731
2SC3860

Q732
2SA1348

Q781
2SC3860

IC704
REC AMP

[DOLBY
BOARD]

CN751

CN350

OFF→ON
S350
DOLBY NR

IC705
MC14052BCP
SIGNAL
SELECT

Q789,790
SWITCH

Q789
2SC3402

Q790
2SC3402

IC785
MC14001BCP
DECK
CONTROL

CN1A

S1A
CrO2

S3A
PLAY

S2A
MD
POWER

M1
REEL
CAPSTAN
MOTOR

[SWITCH
(A)BOARD]

CN1B

S4B
REC

S1B
CrO2

S3B
PLAY

S2B
MD
POWER

M2
REEL
CAPSTAN
MOTOR

[SWITCH
(B)BOARD]

Q739,740
SWITCH

Q739
2SC3399

Q740
2SC3399

IC999
DC-DC CONVERTER

IC999
LA5601

Q999
2SC3402
SWITCH

Q738
SWITCH

Q738
2SA1348

IC706
RESET

IC706
M51953BL

Q735
2SB1388

Q736
2SB1761

Q735,736
REG

Q737
2SC3402

Q737
RESET

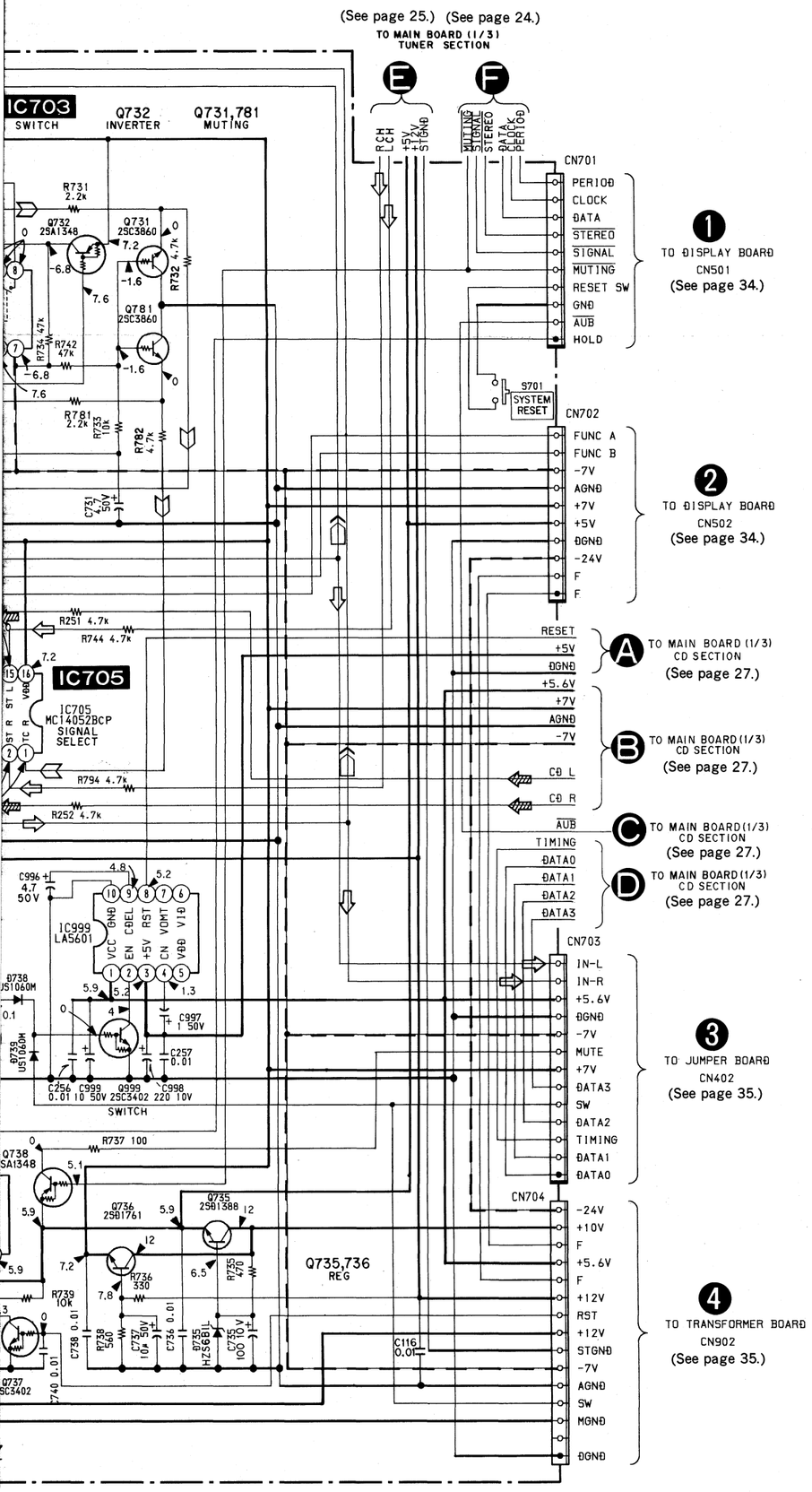
Q785,786
MOTOR
SWITCH

Q791
2SC3402

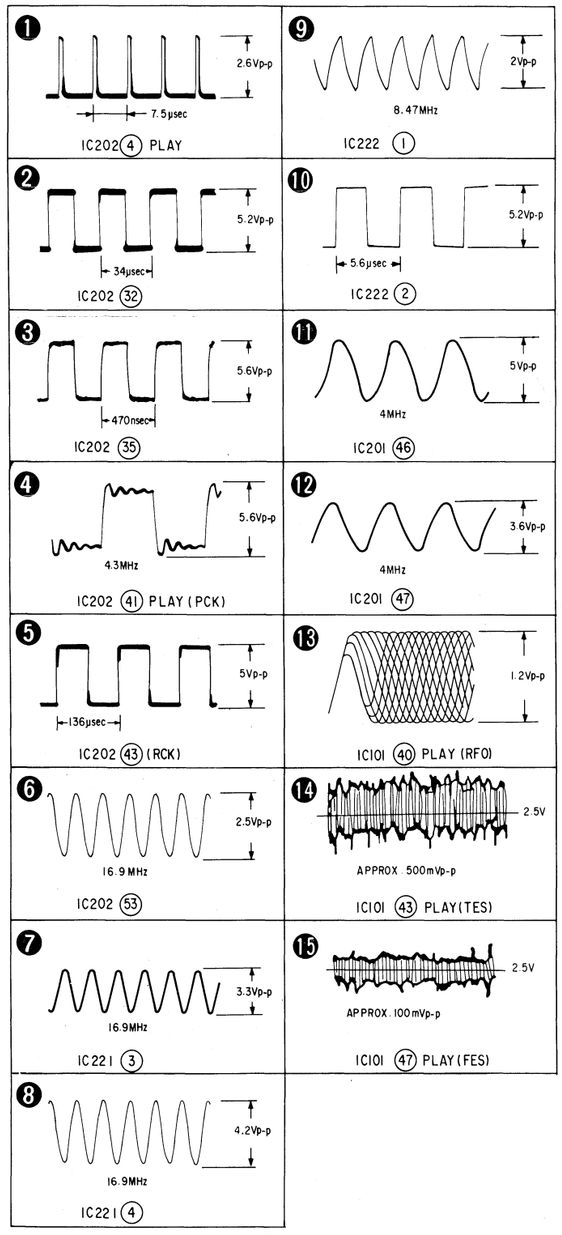
Q791
LED DRIVE

D300
SEL2210W
REC

[REC LED
BOARD]



● Waveforms



Note:

- All capacitors are in µF unless otherwise noted. pF: µµF 50WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and 1/4W or less unless otherwise specified.
- ▬▬ : B+ Line
- ▬ ▬ : B− Line
- ▭ : adjustment for repair.
- Voltage is dc with respect to ground under no-signal conditions.
  no mark : POWER ON
  ( ): PLAY (DECK A)
  < > : REC
- Voltages are taken with a VOM (Input Impedance 10MΩ). Voltage variations may be noted due to normal production tolerances.
- Signal path.
  ⇨ : FM
  ⇨ : PB (DECK A)
  ⇨ : CD
  ⇨ : PB (DECK B)
  ⇨ : REC

- CND: Canadian model
  WG: West Germany model
  IT: Italian model
  EE: East European model
  EA: Saudi Arabia model
  AUS: Australian model

【DISPLAY BOARD】

IC506 REMOTE CONTROL RECEIVER — IC506 A1QH30205

IC505 SYSTEM CONTROL — IC505 μPD75212ACW-189

Q575 LED DRIVE — Q575 2SC3402 — STANDBY

Q574 AU BUS SWITCH — Q574 2SC3402

Q576 RESET — Q576 2SC2603

D521 SEL4214R — D522 SEL4914R — D523 SEL4914R

D576 US1060M — D574 US1060M — D598 UZL-9H1 — D577 US1060M — D578 US1060M — D579 US1060M — D580 US1060M — D581 US1060M — D582 US1060M — D583 US1060M — D584 US1060M — D585 US1060M — D588 US1060M — D589 US1060M — D572 US1060M — D571 US1060M

X501 4.19MHz — X502 32KHz

FLT501 FLUORESCENT INDICATOR TUBE

CP504 220P x13 — CP503 220P x13

PRESET/TIMER — NEXT/ENTER — SHIFT — DUAL — ST/MUTE — AUTO — VIDEO/AUX — TUNER — PHONO — TIMER CONTROL — SLEEP — CLOCK SET — CLOCK DISPLAY — TIMER-FUNC. — AUX/PHONO — ST TYPE — ST TYPE

US, CND E, EA, AUS MODEL — AEP, WG, IT, EE MODEL

	A D588	B D589	C D590	D585
E, EA, AUS	○	×	○	○
AEP, WG	○	×	×	×
EE	×	○	○	×
IT	×	○	×	×
US, CND	×	×	×	○

SAT — DBFB — SURROUND — -24V

Q572,573 SURROUND SWITCH — Q572 2SA1348 — Q573 2SK246Y

Q501,551 DBFB SWITCH — Q501 2SC3860 — Q551 2SC3860

IC501 GEQ AMP — IC501 M5226FP

IC551 GEQ AMP — IC551 M5226FP

IC502 BUFFER

RV501 250k 4B 12kHz — RV502 250k 4B 4kHz — RV503 250k 4B 1kHz — RV504 250k 4B 400Hz — RV505 250k 4B 100Hz

RV551 250k 4B 12kHz — RV552 250k 4B 4kHz — RV553 250k 4B 1kHz — RV554 250k 4B 400Hz — RV555 250k 4B 100Hz

【DISPLAY BOARD】

IC506 REMOTE CONTROL RECEIVER — IC506 A1QH30205

IC505 SYSTEM CONTROL — IC505 μPD75212ACW-189

Q575 LED DRIVE — STANDBY

Q574 AU BUS SWITCH — Q574 2SC3402

Q576 RESET — Q576 2SC2603

Q575 2SC3402

D521 SEL4214R

D522 SEL4914R

D523 SEL4914R

D576 US1060M

D598 UZL-9H1

X501 4.19MHz

X502 32KHz

FLT501 FLUORESCENT INDICATOR TUBE

	A D588	B D589	C D590	D585
E,EA, AUS	○	×	○	○
AEP, WG	○	×	×	×
EE	×	○	○	×
IT	×	○	×	×
US, CND	×	×	×	○

US,CND E,EA,AUS MODEL

AEP,WG, IT,EE MODEL

SAT

DBFB

SURROUND

AEP,WG,IT,EE MOD

PRESET/TIMER

NEXT ENTER

SHIFT

DUAL

ST/MUTE

AUTO

VIDEO/AUX

PHONO

TUNER

TIMER CONTROL

SLEEP

CLOCK SET

CLOCK DISPLAY

AUX/PHONO

ST TYPE

IC501 GEQ AMP — IC501 M5226FP

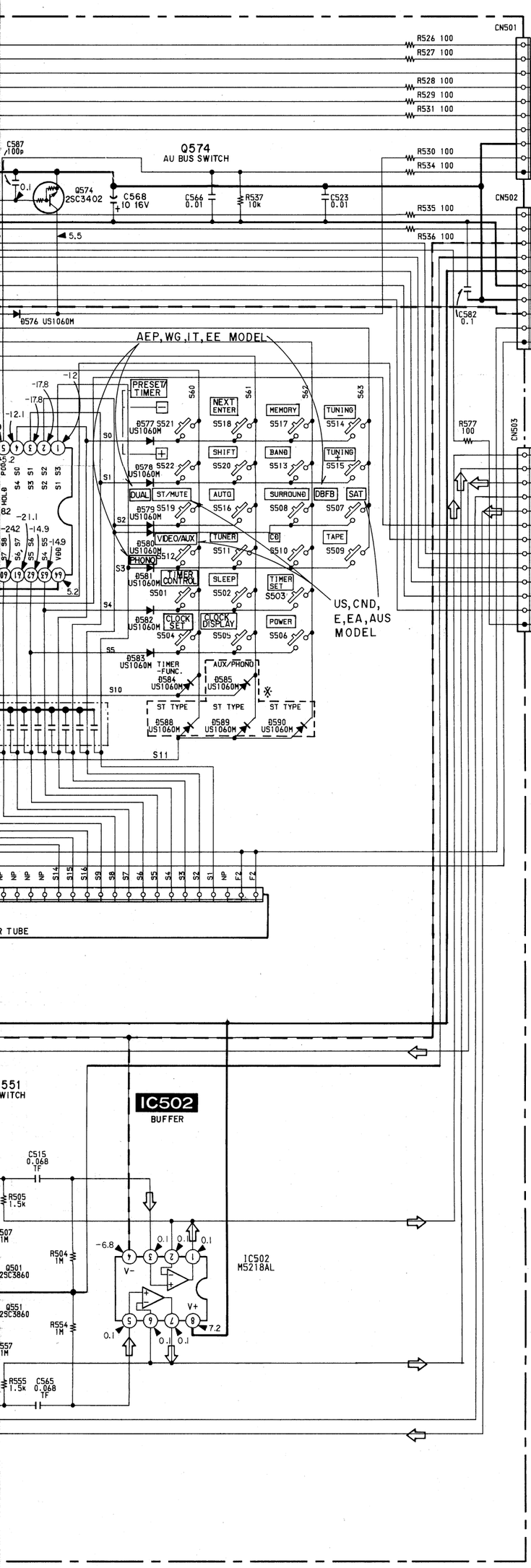
IC551 GEQ AMP — IC551 M5226FP

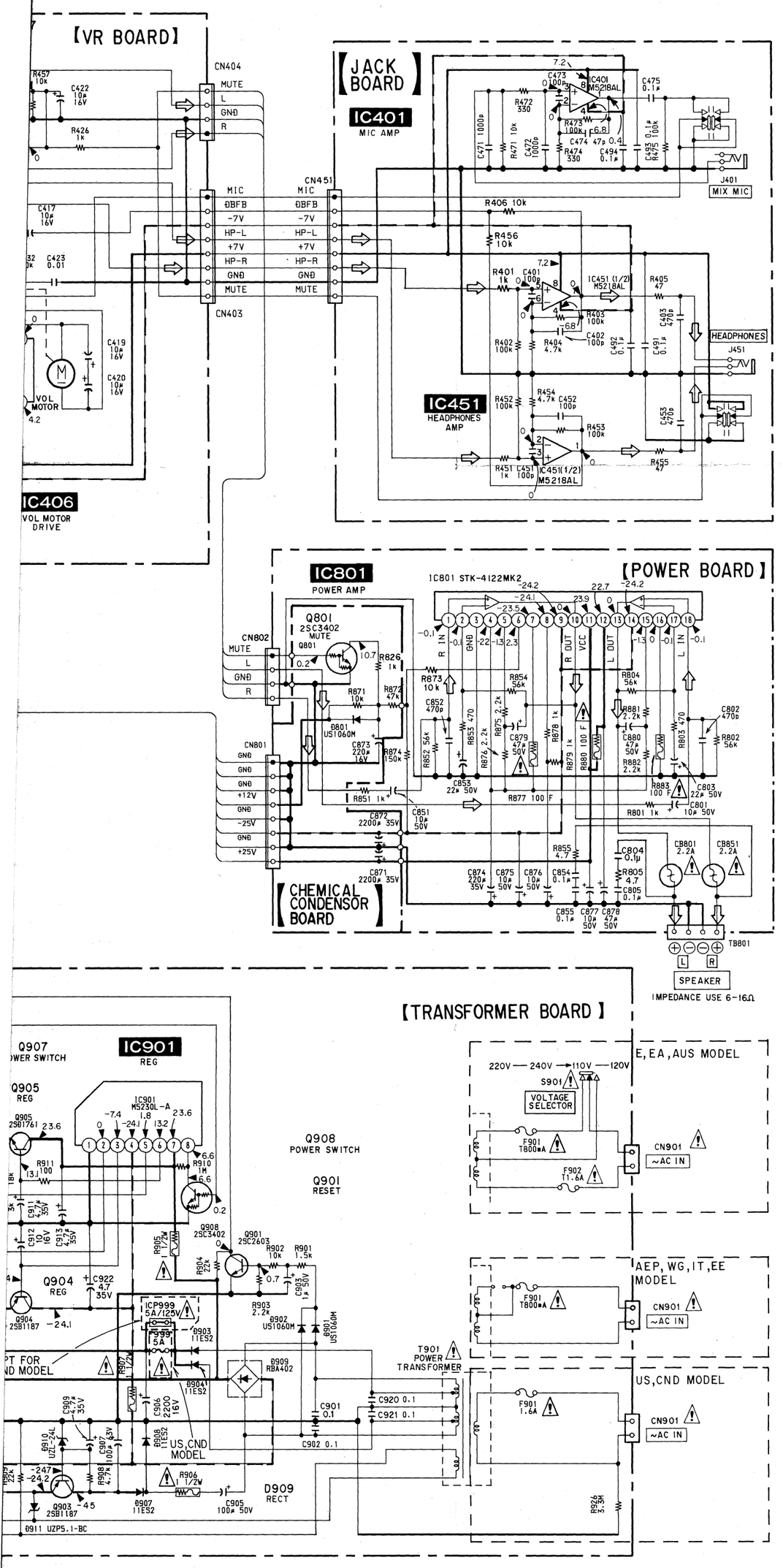
Q572,573 SURROUND SWITCH — Q572 2SA1348 — Q573 2SK246Y

Q501,551 DBFB SWITCH — Q501 2SC3860 — Q551 2SC3860

IC502 BUFFER

12kHz 4kHz 1kHz 400Hz 100Hz


CN501
PERIOD
CLOCK
DATA
STEREO
SIGNAL
MUTING
RESET SW
GND
AUB
HOLD
TO MAIN BOARD (1/3) DECK SECTION CN701
(See page 32.)
CN502
FUNC A
FUNC B
-7V
A GND
+7V
+5V
D GND
-24V
F
F
TO MAIN BOARD (1/3) DECK SECTION CN702
(See page 32.)
Q574
AU BUS SWITCH
Q574 2SC3402
C587 100p
C568 10 16V
C566 0.01
R537 10k
C523 0.01
R526 100
R527 100
R528 100
R529 100
R531 100
R530 100
R534 100
R535 100
R536 100
C582 0.1
D576 US1060M
AEP, WG, IT, EE MODEL
PRESET/TIMER
NEXT ENTER
MEMORY
TUNING
SHIFT
BAND
DUAL
ST/MUTE
AUTO
SURROUND
DBFB
SAT
VIDEO/AUX
TUNER
CD
TAPE
PHONO
TIMER CONTROL
SLEEP
TIMER SET
CLOCK SET
CLOCK DISPLAY
POWER
TIMER -FUNC.
AUX/PHONO
ST TYPE
ST TYPE
ST TYPE
S501
S502
S503
S504
S505
S506
S507
S508
S509
S510
S511
S512
S513
S514
S515
S516
S517
S518
S519
S520
S521
S522
D577 US1060M
D578 US1060M
D579 US1060M
D580 US1060M
D581 US1060M
D582 US1060M
D583 US1060M
D584 US1060M
D585 US1060M
D588 US1060M
D589 US1060M
D590 US1060M
US, CND, E, EA, AUS MODEL
R TUBE
CN503
SIGNAL L
SIGNAL R
SIG IN L
DBFB
SIG IN R
VR DOWN
VR UP
CD DATA 3
CD DATA 2
CD DATA 1
CD DATA 0
CD TIMING
POWER SW
R577 100
CN401
SIGNAL L
SIGNAL R
SIG IN L
DBFB
SIG IN R
VR DOWN
VR UP
CD DATA3
CD DATA2
CD DATA1
CD DATA0
CDTIMING
POWER SW
【VR BOARD】
Q406, 456 MUTE
Q407, 457 MUTE
Q406 2SC3860
Q407 2SC3860
Q456 2SC3860
Q457 2SC3860
RV406 VOLUME
CN404
MUTE
L
GND
R
CN403
MIC
DBFB
-7V
HP-L
+7V
HP-R
GND
MUTE
Q406 US1060M
IC406 LB1639
VOL LED
VOL MOTOR
【JUMPER BOARD】
IC406
VOL MOTOR DRIVE
CN402
DATA0
DATA1
TIMING
DATA2
SW
DATA3
+7V
MUTE
-7V
D GND
+5.6V
IN-R
IN-L
TO MAIN BOARD (1/3) DECK SECTION CN703
(See page 32.)
TO MAIN BOARD (1/3) DECK SECTION CN704
(See page 32.)
IC502
BUFFER
IC502 M5218AL
Q551 WITCH
Q501 2SC3860
Q551 2SC3860
Q557
R505 1.5k
R504 1M
R554 1M
R555 1.5k
C515 0.068 TF
C565 0.068 TF
CN902
-24V
+10V
F
+5.6V
F
+12V
RST
+12V
ST GND
-7V
A GND
SW
M GND
D GND
CN903
GND
GND
GND
+12V
GND
-25V
GND
+25V
Q906 2SB1761
Q907 POWER SWITCH
Q906 REG
Q907 2SC3402
Q905 REG
Q905 2SB1761
IC901 REG
IC901 M5230L-A
Q904 REG
Q904 2SB1187
Q903 REG
Q903 2SB1187
D912 HZS6B1L
D911 UZP5.1-BC
D907 1ES2
D908 1ES2
D904 1ES2
EXCEPT FOR US, CND MODEL
US, CND MODEL
ICP999 5A/125V
F999 5A
R906 1 1/2W
R907 1/2W
C905 100μ 50V
C906 2200 16V



● **Semiconductor Location**

Ref. No.	Location	Ref. No.	Location
D406	G-13	IC502	G-9
D521	F-2	IC505	H-5
D522	E-2	IC506	F-2
D523	E-2	IC551	F-5
D571	G-4	IC801	C-14
D572	G-7	IC901	C-7
D574	I-7		
D576	I-6	Q406	H-13
D577	H-7	Q407	G-14
D578	H-7	Q456	H-13
D579	H-7	Q457	G-14
D580	H-3	Q501	G-8
D581	H-3	Q551	G-8
D582	H-3	Q572	G-4
D583	H-3	Q573	F-7
D584	H-4	Q574	I-4
D585(※1)	H-3	Q575	G-2
D588(※2)	H-3	Q576	H-4
D589(※3)	H-3	Q801	C-10
D590(※4)	H-3	Q901	A-8
D598	I-7	Q903	D-6
D801	C-10	Q904	D-6
D901	B-8	Q905	D-7
D902	B-8	Q906	D-8
D903	C-4	Q907	C-8
D904	C-5	Q908	C-8
D907	C-6		
D908	C-5		
D909	B-8		
D910	C-6		
D911	D-6		
D912	C-8		
IC401	I-13		
IC406	G-12		
IC451	J-13		
IC501	F-3		

※1 : Used on US, CND, E,EA and AUS model.
※2 : Used on AEP, WG, E, EA and AUS model.
※3 : Used on IT and EE model.
※4 : Used on EE, E, EA and AUS model.

Note:

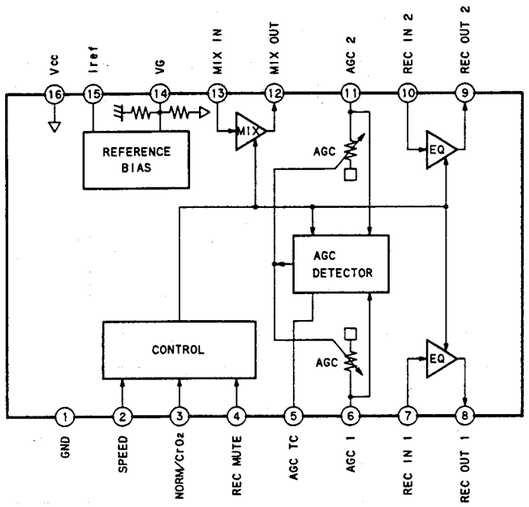
- All capacitors are in μF unless otherwise noted. pF: μμF 50WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and 1/4W or less unless otherwise specified.
- : fusible resistor.

Note:	**Note:**
The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified.	Les composants identifiés par une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

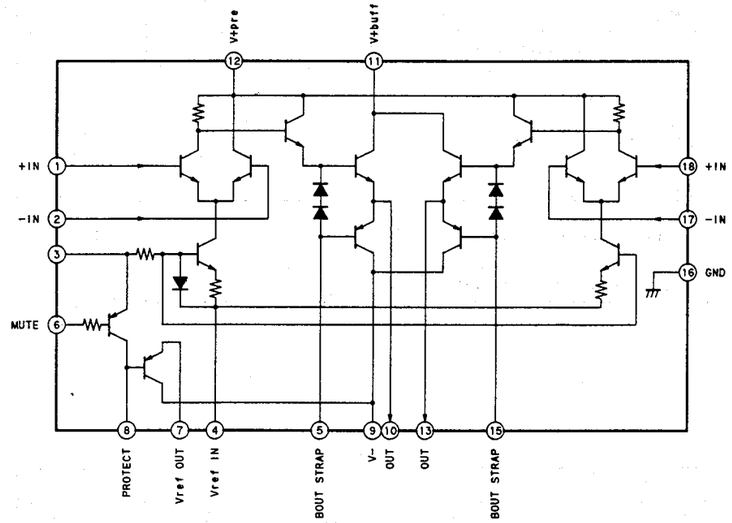
- ▬▬ : B+ Line
- ▬ ▬ : B− Line
- Voltage is dc with respect to ground under no-signal conditions. no mark : POWER ON
- Voltages are taken with a VOM (Input Impedance 10MΩ). Voltage variations may be noted due to normal production tolerances.
- Signal path. ⇨ : FM

- CND: Canadian model
  WG: West Germany model
  IT: Italian model
  EE: East European model
  EA: Saudi Arabia model
  AUS: Australian model

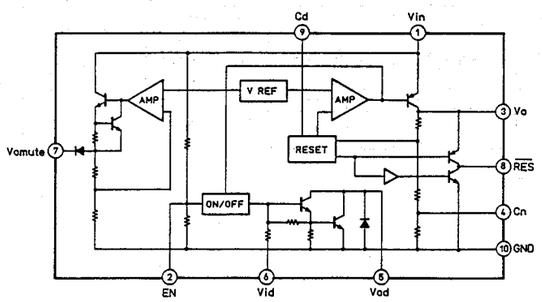
• IC704 CXA1298AP



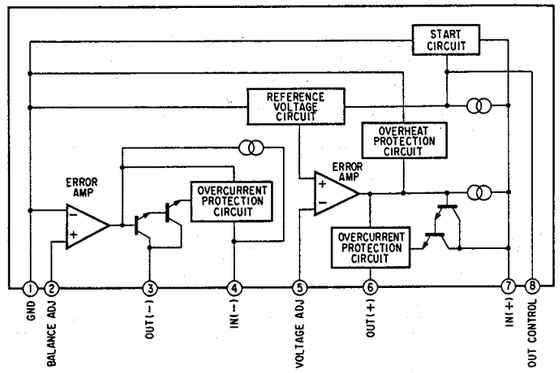
• IC801 STK-4122MK2



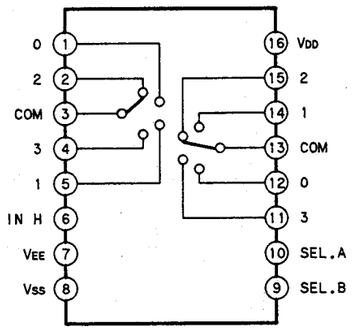
• IC999 LA5601



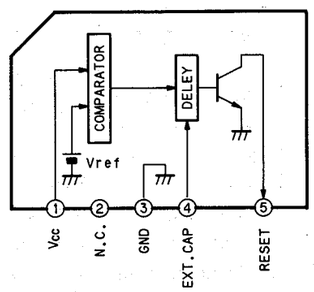
• IC901 M5230L



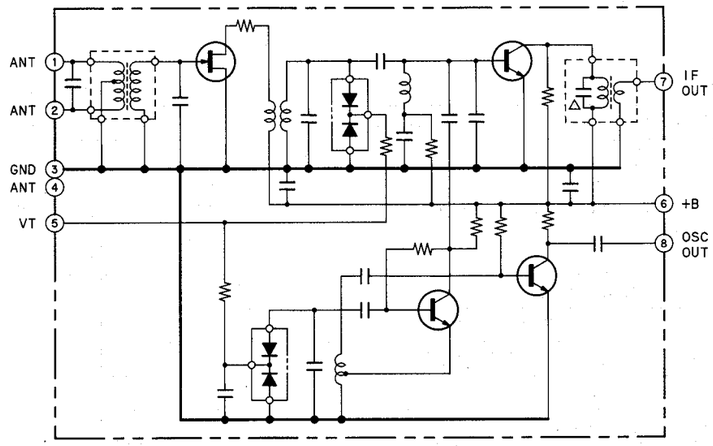
• IC705 MC14052BCP



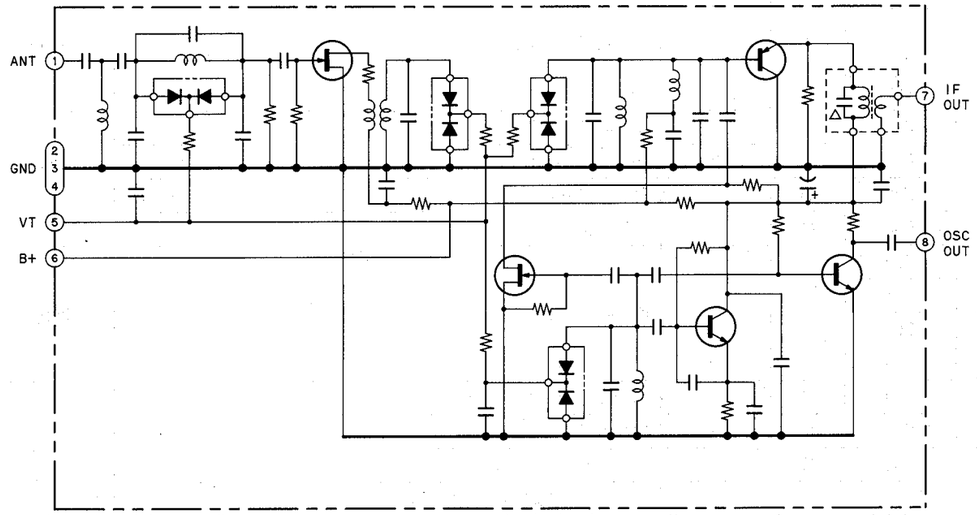
• IC706 M51953BL



• FE1 FM Front End (US, CND, AEP, EE, E,EA, AUS)



• FE1 FM Front End (WG, IT)



6-9. PIN FUNCTIONS

• IC505 Display Control (μPD75212)

Pin No.	Pin Name	I/O	ACTIVE	Description	Hold
1	S3	O	H	Segment, keyscan output terminals	Low
2	S2				
3	S1				
4	S0				
5	INT4	I	L	HOLD input	input
6	SCK	O	—	CLOCK (TC9217P T-BUS)	
7	SO	I/O	—	DATA (TC9217P T-BUS)	
8	PO3	I	L	SIGNAL input	
9	INT0	I	L	AUDIO-BUS input	input
10	INT1	I	Down	CD display data, timng	
11	P12	I	L	Remote control input	
12	P13	I	L	STEREO input	
13	P20	I	—	CD display data	input
14	P21				
15	P22				
16	P23				
17	P30	I	L	DUAL 2 input	input
18	P31	I	L	DUAL 1 input	
19	P32	O	L	POWER port	
20	P33	O	L	MUTING	Low
21	P60	I	H	Keyscan input	input
22	P61				
23	P62				
24	P63				
25	P40	O	—	FUNCTION A output	Low
26	P41	O	—	FUNCTION B output	
27	P42	O	H	AUDIO-BUS output	
28	P43	O	L	PERIOD (TC9217P T-BUS)	
29	PP0	—	—	Not used (open)	—
30	X1	—	—	Main system clock 4.19MHz	—
31	X2				
32	V_{SS}	—	—	GND terminal (0V)	—
33	XT1	—	—	Sub system clock 32.768kHz	—
34	XT2				
35	P50	O	L	DBFB	Low
36	P51	O	L	SURROUND	
37	P52	O	L	Volume DOWN	
38	P53	O	L	Volume UP	
39	RESET	I	L	System reset input terminal	—
40	T0	O	H	Digit output	Low
41	T1				
42	T2				
43	T3				
44	T4				
45	T5				
46	T6				
47	T7				
48	T8				
49	T9	O	—	Not used (open)	Low
50	S15	O	H	Segment output	Low
51	S14				
52	S13				
53	S12				
54	S11	O	H	Segment output, specification distinction diode output	Low
55	S10				
56	V_{LOAD}	—	—	Pull-down resistor connect terminal of FIP driver	—
57	V_{PRE}	—	—	Power supply terminal of FIP driver output buffer	—
58	S9	O	H	Segment output	Low
59	S8				
60	S7				
61	S6				
62	S5	O	H	Segment, keyscan output teminal	Low
63	S4				
64	V_{DD}	—	—	Power supply terminal (5V)	—

[KEY, DIODE MATRIX]

	Key						Diode	
	S5	S4	S3	S2	S1	S0	S10	S11
P60	CLOCK	TIMER CONTROL	VIDEO	DUAL	STATION UP	STATION DOWN	TIMER FUNCTION	A
P61	DISPLAY	SLEEP	TUNER	AUTO/ MANUAL	SHIFT	ENTER	VIDEO/ PHONO	B
P62	POWER	TIMER SET	CD	SURROUND	BAND	MERORY	IF+50kHz	C
P63	——	——	TAPE	DBFB	TUNING UP	TUNING DOWN	IF−50kHz	——

1) Pressing the key twice is not allowed. (First pressing is preceded)
2) The remote control precedes the input with the pey.
3) Input the diode in resetting and in releasing HOLD.

• IC201 CD Controller (μPD75112CW)

Pin No.	Pin Name	I/O	Description
1	$\overline{\text{INSW}}$	I	Disk tray clamp-end input
2	$\overline{\text{OUTSW}}$	I	Disk tray open-end input
3	(TIMER)	I	Timer start input
4	BSIN	I	Audio bus input
5	Not Used	I	GND
6	Not Used	I	GND
7	Not Used	I	GND
8	Not Used	I	GND
9	SENS	I	SENS input, and the state input of every kind from CXD2500Q and CXA1372Q
10	Not Used	I	GND
11	SENS	I	SENS input, and the state input of every kind from CXD2500Q and CXA1372Q
12	Not Used	I	GND
13	Not Used	I	GND
14	Not Used	I	GND
15	SUBQ	I	Q data serial input from CXD2500Q
16	Not Used	O	OPEN
17	SQCLK	O	Sub-code Q data read-in clock output for CXD2500Q
18	SCOR	I	Sub-code synchro S0 and S1 detect input
19	Not Used	O	OPEN
20	Not Used	O	OPEN
21	PLAYL	O	Play LED ON/OFF output
22	PAUSL	O	Pause LED ON/OFF output
23	KEY3	I	Key data input
24	KEY2	I	Key data input
25	KEY1	I	Key data input
26	KEY0	I	Key data input
27	DG3	O	Key-scan digit output
28	DG2	O	Key-scan digit output
29	DG1	O	Key-scan digit output
30	DG0	O	Key-scan digit output
31	Not Used	I	+5V
32	VDD	I	+5V
33	Not Used	O	OPEN
34	Not Used	O	OPEN
35	Not Used	O	OPEN
36	Not Used	O	On time 1 track jump, tracking drive is inversed output for CXA1372Q
37	DPDAT3	O	Display data output for tuner amp micon
38	DPDAT2	O	Display data output for tuner amp micon
39	DPDAT1	O	Display data output for tuner amp micon
40	DPDAT0	O	Display data output for tuner amp micon
41	DPCLK	O	Display data transmission clock output for tuner amp micon
42	PRGL	O	Serial data latch pulse output for digital filter CXD2551P
43	PRGCK	O	Serial clock output for digital filter CXD2551P
44	PRGD	O	Serial clock output for digital filter CXD2551P

Pin No.	Pin Name	I/O	Description
45	$\overline{\text{RESET}}$	I	System reset input terminal (LOW ACTIVE)
46	X2	I	System clock input 4.19MHz
47	X1	I	System clock input 4.19MHz
48	DFCTSW	O	From focus in till spindle kick is ON except then is OFF.
49	AMUTE	O	Muting ON/OFF output
50	BSOUT	O	Audio bus output
51	AFADJ	I	Test mode input, and on time POWER "L" is test move ment of every kind
52	LDON	O	Laser diode ON/OFF output
53	XLT	O	Serial data latch pulse output for CXD2500Q
54	CLK	O	Serial clock output for CXD2500Q
55	DATA	O	Serial data output for CXD2500Q
56	Not Used	I	GND
57	ADJ	I	Test mode input, "L" is GFS no check.
58	GFS	I	GFS OK/NO Good input
59	FOK	I	Focus OK NO Good input
60	Not Used	O	OPEN
61	Not Used	O	OPEN
62	LODOUT	O	Disc tray loading-out output
63	LODIN	O	Disc tray loading-in output
64	VSS	I	GND

SECTION 7
EXPLODED VIEWS

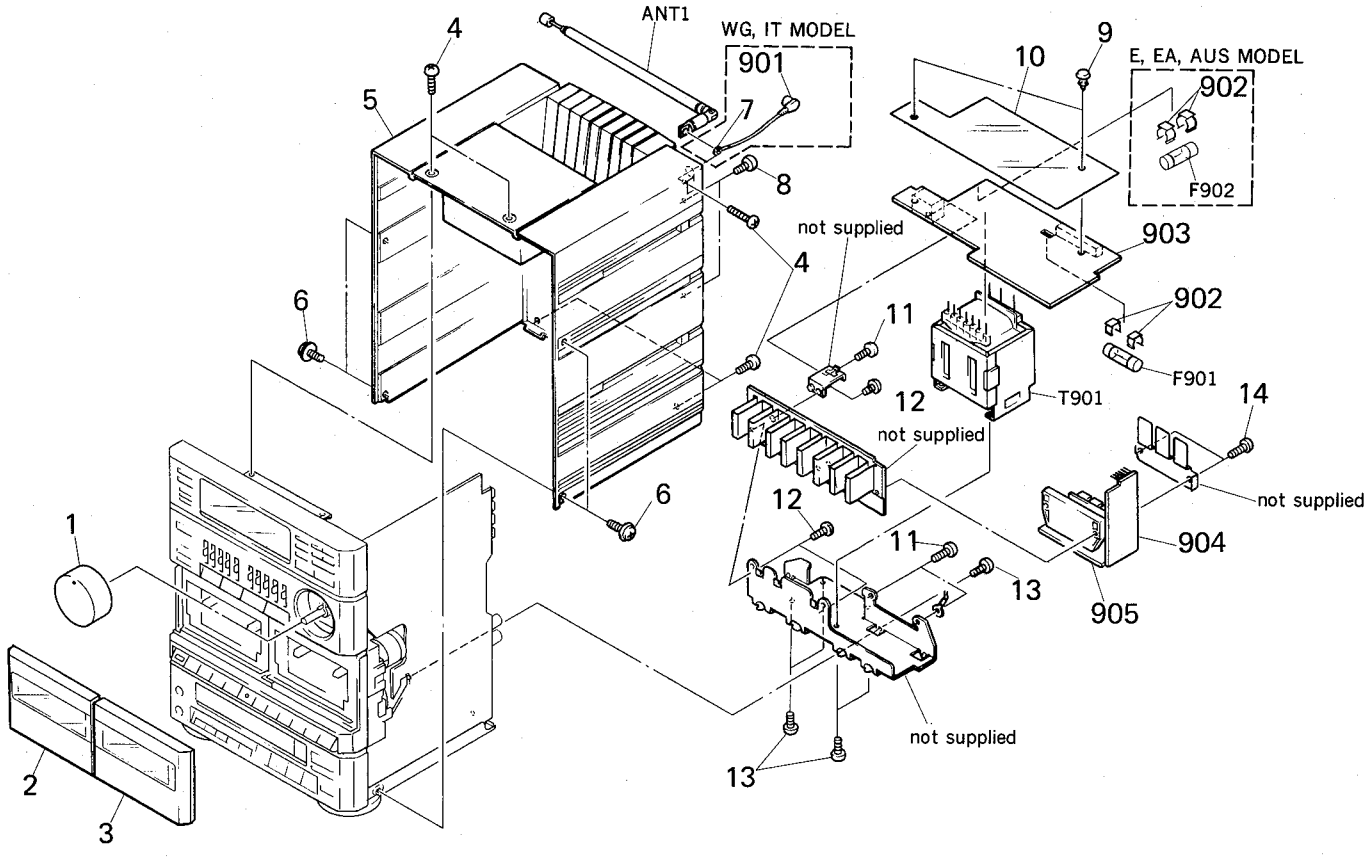
NOTE:

- The mechanical parts with no reference number in the exploded views are not supplied.
- The construction parts of an assembled part are indicated with a collation number in the remark column.
- Items marked "★" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- Due to standardization, parts with part number suffix -XX and -X may be different from the parts specified in the components used on the set.
- Color Indication of Appearance Parts
  Example:
  (RED) . . . KNOB, BALANCE (WHITE)
  ↑ ↑
  Cabinet's Color Parts' Color

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

Les composants identifiés par une marque ⚠ sont critiques pour la sécurité.
Ne les remplacer que par une pièce portant le numéro spécifé.

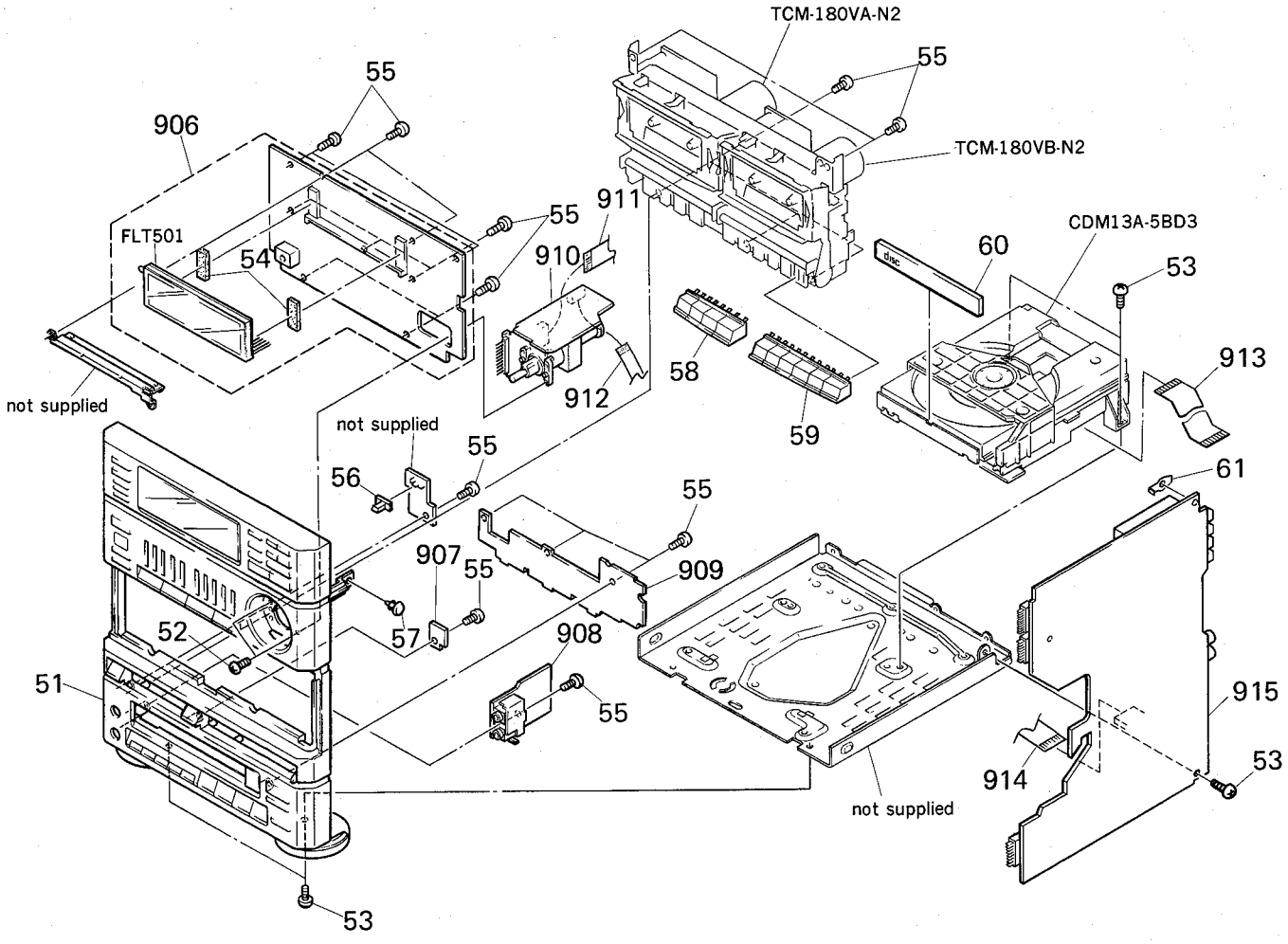
7-1. CASE, POWER SUPPLY BLOCK



No.	Part No.	Description	Remarks
1	X-4936-803-1	KNOB (VOLUME) ASSY	
2	X-4936-816-1	LID (A) ASSY, CASSETTE	
3	X-4936-817-1	LID (B) ASSY, CASSETTE	
4	7-682-549-04	SCREW +BVTT 3X10 (S)	
5	X-4936-802-1	(EXCEPT E,EA,AUS)...CASE ASSY	
	X-4936-804-1	(E,EA,AUS).....CASE ASSY	
6	3-704-366-01	SCREW (CASE) (M3X8)	
7	7-623-508-11	(WG,IT)...EARTH, LUG 3	
8	7-685-648-19	SCREW +BVTP 3X12	
9	4-812-134-31	RIVET NYLON, 3.5	
10	*4-936-816-01	COVER (INSULATING)	
11	7-685-647-79	SCREW +BVTP 3X10 TYPE2 N-S	
12	7-685-645-71	SCREW +BVTP 3X6	
13	7-682-547-04	SCREW +BVTT 3X6 (S)	
14	7-685-650-79	SCREW +BVTP 3X16 TYPE2 IT-3	

No.	Part No.	Description	Remarks
901	*1-562-908-11	(WG,IT)...CONNECTOR, FEMALE (NO SHIELD)	
902	1-533-213-31	HOLDER, FUSE	
903	*1-634-853-11	PC BOARD, TRANSFORMER	
904	*1-634-850-11	PC BOARD, CHEMICAL CONDENSOR	
905	*1-634-849-11	PC BOARD, POWER	
ANT1	1-501-270-00	ANTENNA, TELESCOPIC	
F901	⚠1-532-215-00	(EXCEPT US,Canadian)...FUSE, TIME-LAG	
F901	⚠1-532-555-00	(US,Canadian)...FUSE, GLASS TUBE (1.6A)	
F902	⚠1-532-259-00	(E,EA,AUS).....FUSE, TIME-LAG (T 1.6A)	
T901	⚠1-450-055-11	(E,EA,AUS).....TRANSFORMER, POWER	
T901	⚠1-450-056-11	(AEP,WG,IT,EE)...TRANSFORMER, POWER	
T901	⚠1-450-057-11	(US,Canadian)....TRANSFORMER, POWER	

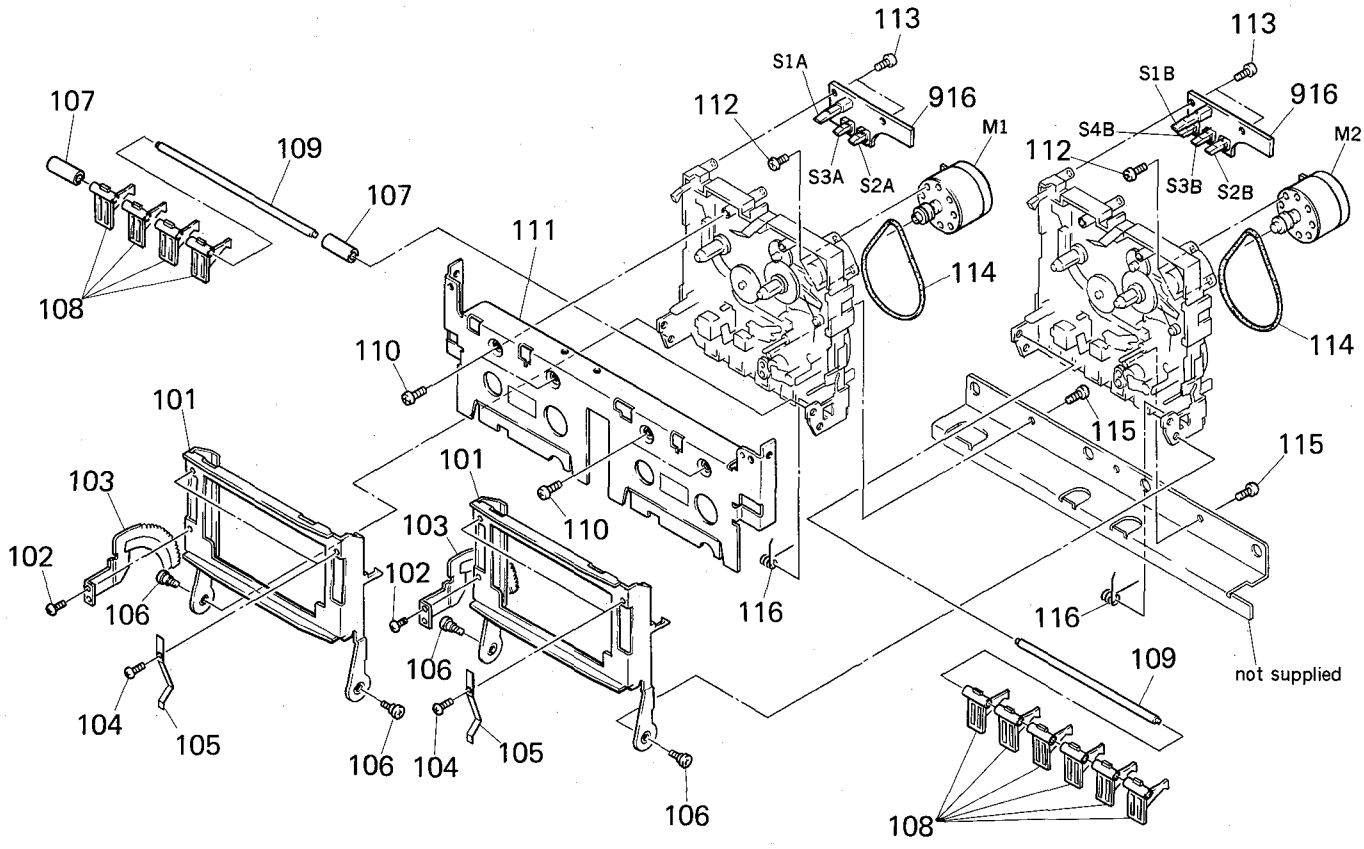
7-2. FRONT PANEL, MAIN BOARD BLOCK



No.	Part No.	Description	Remarks
51	X-4936-818-1	(US,Canadian,E,EA,AUS) ...PANEL ASSY, FRONT	
	X-4936-822-1	(AEP,WG,IT,EE)...PANEL ASSY, FRONT	
52	7-685-872-01	SCREW +BVTT 3X8	
53	7-682-547-04	SCREW +BVTT 3X6 (S)	
54	*4-932-810-01	CUSHION (FL)	
55	4-928-635-01	(EXCEPT AUS)...SCREW, +BV (2.6X8)TAPPING	
	7-685-534-11	(AUS).....SCREW +BTP 2.6X8	
56	4-936-868-01	KNOB (DOLBY)	
57	4-812-134-31	RIVET NYLON, 3.5	
58	4-936-872-01	BUTTON (A)	
59	4-936-873-04	BUTTON (B)	
60	4-936-833-01	PANEL, LOADING	
61	*4-925-530-01	PLATE, GROUND	
906	*A-4334-274-A	(E,EA,AUS).....MOUNTED PCB, DISPLAY	
	*A-4334-291-A	(EE).....MOUNTED PCB, DISPLAY	
	*A-4334-284-A	(AEP).....MOUNTED PCB, DISPLAY	
	*A-4334-287-A	(US,Canadian)...MOUNTED PCB, DISPLAY	
	*A-4334-294-A	(WG).....MOUNTED PCB, DISPLAY	
	*A-4334-296-A	(IT).....MOUNTED PCB, DISPLAY	

No.	Part No.	Description	Remarks
907	*1-634-856-11	PC BOARD, REC LED	
908	*1-634-857-11	PC BOARD, JACK	
909	*1-634-852-11	PC BOARD, SW	
910	*1-634-854-11	PC BOARD, VR	
911	1-575-672-11	WIRE, FLAT TYPE (13 CORE)	
912	1-575-674-11	WIRE, FLAT TYPE (8 CORE)	
913	1-535-832-11	JUMPER, FILM (WITH TERMINAL)	
914	1-575-673-11	WIRE, FLAT TYPE (15 CORE)	
915	*A-4334-271-A	(E,EA,AUS).....MOUNTED PCB, MAIN	
	*A-4334-279-A	(EE).....MOUNTED PCB, MAIN	
	*A-4334-282-A	(AEP).....MOUNTED PCB, MAIN	
	*A-4334-286-A	(US,Canadian)...MOUNTED PCB, MAIN	
	*A-4334-292-A	(WG,IT).....MOUNTED PCB, MAIN	
917	1-634-461-11	PC BOARD, LOADING	
FLT501	1-519-577-11	INDICATOR TUBE, FLUORESCENT	

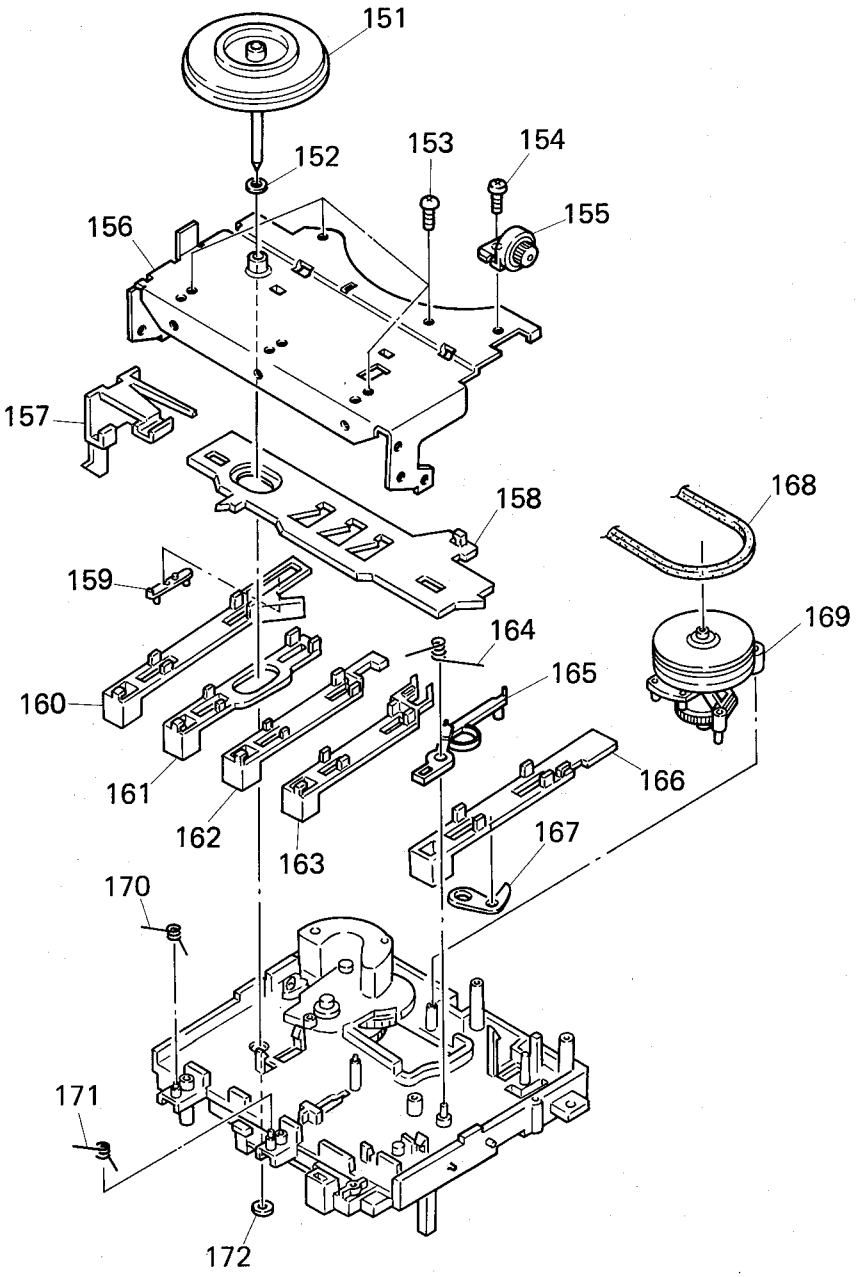
7-3. MD CHASSIS BLOCK



No.	Part No.	Description	Remarks
101	3-358-282-01	HOLDER (FH), CASSETTE	
102	7-621-255-25	SCREW +PTT 2X4 (S)	
103	*3-358-276-01	RACK, GEAR	
104	7-621-255-10	SCREW +PTT 2X3 (S)	
105	3-358-280-01	SPRING (CASSETTE HOLDER FH)	
106	3-358-277-01	SCREW, STEP	
107	*3-358-216-01	(DECK A)...COLLAR	
108	3-358-268-01	LEVER (BUTTON BASE B)	
109	3-358-242-01	SHAFT (BUTTON SHAFT)	
110	7-685-534-19	SCREW +BTP 2.6X8	
111	*4-936-874-01	JOINT (UPPER)	
112	7-621-775-20	SCREW +B 2.6X5	
113	7-685-133-19	SCREW +BTP 2.6X6 TYPE2 N-S	
114	3-358-230-01	BELT (A1)	
115	4-928-635-01	(EXCEPT AUS)...SCREW, +BV(2.6X8) TAPPING	
	7-685-534-11	(AUS).....SCREW +BTP 2.6X8	

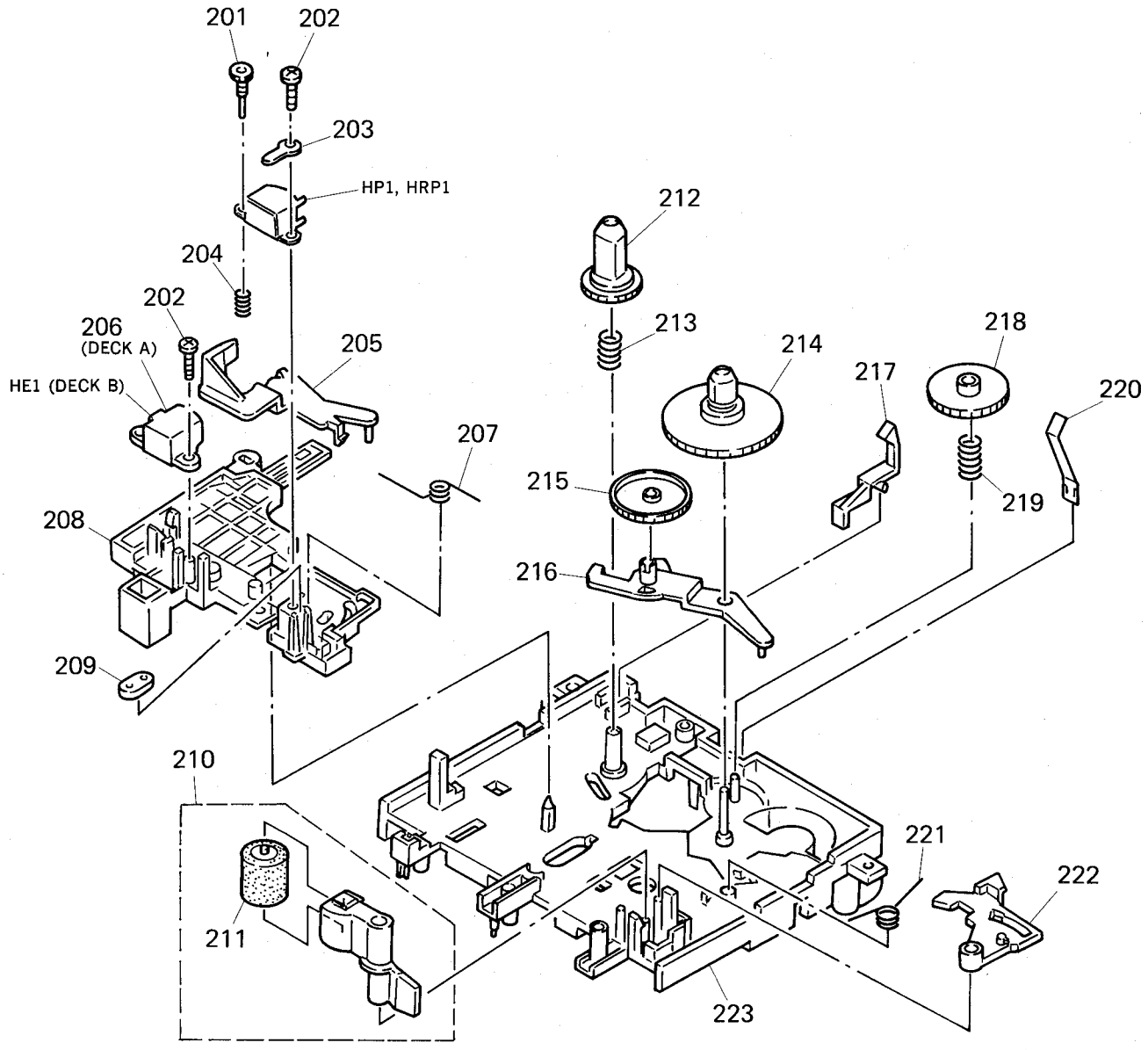
No.	Part No.	Description	Remarks
116	3-358-278-01	SPRING (LOADING FH), TORSION	
916	*1-635-160-11	(DECK A)...PC BOARD, SWITCH (A)	
	*1-635-160-11	(DECK B)...PC BOARD, SWITCH (B)	
M1	X-3358-211-1	(DECK A)...MOTOR (A) ASSY	
M2	X-3358-211-1	(DECK B)...MOTOR (A) ASSY	
S1A	1-572-335-11	(DECK A)...SWITCH, LEAF (CrO2)	
S1B	1-572-335-11	(DECK B)...SWITCH, LEAF (CrO2)	
S2A	1-571-736-11	(DECK A)...SWITCH, LEAF (MD POWER)	
S2B	1-571-736-11	(DECK B)...SWITCH, LEAF (MD POWER)	
S3A	1-571-736-11	(DECK A)...SWITCH, LEAF (PLAY)	
S3B	1-571-736-11	(DECK B)...SWITCH, LEAF (PLAY)	
S4B	1-571-736-11	(DECK B)...SWITCH, LEAF (REC)	

7-4. MECHANISM DECK BLOCK (1)



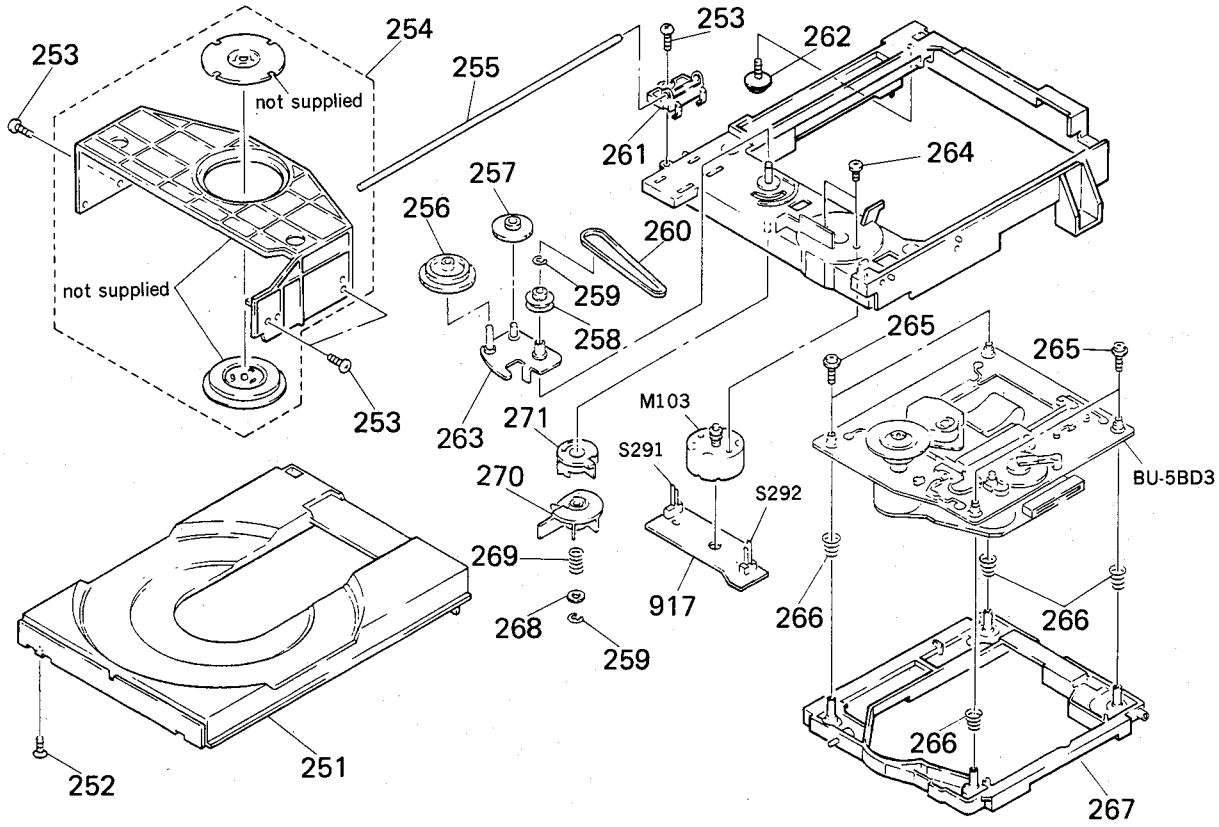
No.	Part No.	Description	Remarks
151	X-3358-205-1	FLYWHEEL (A) ASSY	
152	3-701-437-01	WASHER	
153	7-685-133-19	SCREW +P 2.6X6 TYPE1	
154	7-685-870-01	SCREW +BVTT 3X5 (S)	
155	4-919-393-01	DAMPER	
156	*X-3358-216-1	BRACKET (FH) ASSY	
157	3-358-281-01	SLIDER (HOLDER LOCK FH)	
158	*3-358-249-01	SLIDER (LOCK PLATE)	
159	*3-358-226-01	(DECK B)...LEVER (PAUSE LEVER)	
160	3-358-260-01	(DECK B)...SLIDER (PAUSE)	
161	3-358-256-01	SLIDER (STOP/EJECT)	
162	3-358-257-01	SLIDER (FF)	
163	3-358-258-01	SLIDER (REW)	
164	3-358-214-01	(DECK A)...SPRING (LOCK), TORSION	
	3-358-233-01	(DECK B)...SPRING (REC-LOCK), TORSION	
165	*3-358-251-01	LEVER (TENSION DETECTION ARM)	
166	3-358-259-01	(DECK B)...SLIDER (REC)	
167	*3-358-204-01	(DECK B)...LEVER (REC SAFETY)	
168	3-358-230-01	BELT (A1)	
169	X-3358-202-1	LEVER (FR ARM) ASSY	
170	3-358-232-01	(DECK B)...SPRING (S-P F-R), TORSION	
	3-358-279-01	(DECK A)...SPRING (STOP), TORSION	
171	3-358-232-01	SPRING (S-P F-R), TORSION	
172	7-623-921-01	WASHER 1.7, NYLONE	

7-5. MECHANISM DECK BLOCK (2)



No.	Part No.	Description	Remarks
201	3-358-213-01	SCREW, AZIMUTH	
202	7-685-105-19	TPG +P 2X8, TYPE 2, NON-SLIT	
203	7-623-505-01	LUG, 2	
204	3-358-234-01	SPRING (AZIMUTH), COMPRESSION	
205	3-358-286-01	LEVER (MOTOR LEVER)	
206	3-358-285-01	(DECK A)...GUIDE, TAPE	
207	3-358-228-01	SPRING, TORSION	
208	3-358-255-01	SLIDER (HEAD PC BOARD A)	
209	*3-358-215-01	BUSHING (WIRE KIT RETAINER)	
210	X-3358-204-1	LEVER (PINCH LEVER) ASSY	211
211	3-578-143-11	PINCH ROLLER	
212	3-358-248-01	GEAR (SUPPLY REEL)	
213	3-358-208-01	SPRING (SUPPLY), COMPRESSION	
214	X-3358-203-1	TABLE (T) ASSY, REEL	
215	*3-358-284-01	GEAR (TU GEAR)	
216	*3-358-252-01	LEVER (TU ARM)	
217	*3-358-255-01	(DECK B)...LEVER (GB LEVER)	
218	*3-358-224-01	GEAR (FF GEAR)	
219	3-358-207-01	SPRING (FF GEAR), COMPRESSION	
220	3-358-227-01	SPRING, LEAF	
221	3-358-243-01	SPRING (TU-SHUT), TORSION	
222	*3-358-253-01	LEVER (SHUT-OFF LEVER)	
223	*X-3358-215-1	CHASSIS (B) ASSY	
HE1	1-543-673-11	HEAD, MAGNETIC (ERASE)	
HP1	1-543-672-11	HEAD, MAGNETIC (REC/PB)	
HRP1	1-543-672-11	HEAD, MAGNETIC (REC/PB)	

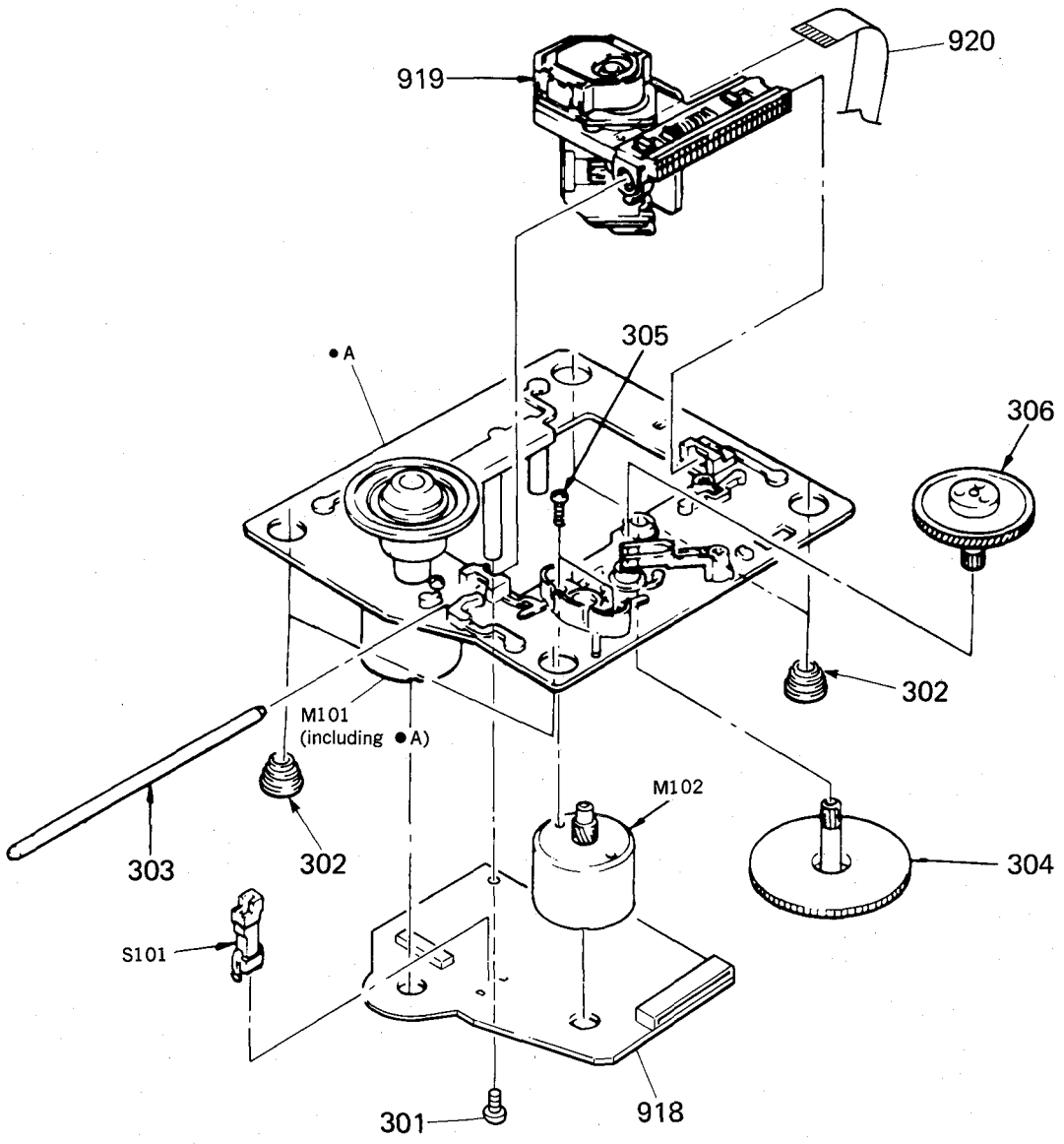
7-6. CD BLOCK (1) (CDM13A-5BD3)



No.	Part No.	Description	Remarks
251	4-929-732-01	TABLE, DISK	
252	7-685-234-19	SCREW +KTP 2.6X8 TYPE2NON-SLIT	
253	7-685-646-79	SCREW +BVTP 3X8 TYPE2 N-S	
254	A-4604-219-A	HOLDER (MG) ASSY	
255	4-929-721-01	SHAFT	
256	4-927-620-01	GEAR (P)	
257	4-927-628-01	GEAR (C)	
258	4-929-724-01	PULLEY (B)	
259	7-624-105-04	STOP RING 2.3, TYPE -E	
260	4-927-649-01	BELT	
261	4-929-723-01	GUIDE (T)	
262	*4-917-583-21	BRACKET, YOKE	

No.	Part No.	Description	Remarks
263	X-4929-703-1	ARM ASSY, SWING	
264	7-621-775-10	SCREW +B 2.6X4	
265	4-933-134-01	SCREW (+PTPWH M2.6X6)	
266	4-917-541-01	SPRING (B)	
267	4-929-747-01	HOLDER (BU)	
268	4-927-654-01	WASHER (LIMITER)	
269	3-659-338-00	SPRING, COMPRESSION	
270	4-929-729-01	CAM (B)	
271	4-929-727-01	CAM (A)	
M103	A-4608-362-A	MOTOR (L) ASSY (LOADING)	
S291	1-571-924-11	SWITCH, LEAF (LOAD OUT)	
S292	1-571-924-11	SWITCH, LEAF (LOAD IN)	

7-7. CD BLOCK (2) (BU-5BD3)



Note:	Note:
The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified.	Les composants identifiés par une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

No.	Part No.	Description	Remarks
301	7-685-134-19	SCREW +BTP 2.6X8 TYPE2 N-S	
302	4-933-126-01	INSULATOR (A)	
303	4-917-565-01	SHAFT, SLED	
304	4-917-564-01	GEAR (P), FLATNESS	
305	7-621-255-15	SCREW +P 2X3	
306	4-917-567-01	GEAR (M)	

No.	Part No.	Description	Remarks
918	*A-4617-371-A	MOUNTED PCB, BD	
919	⚠8-848-144-11	DEVICE, OPTICAL KSS-240A	
920	1-575-001-11	WIRE, FLAT TYPE (12 CORE)	
M101	X-4917-523-3	MOTOR ASSY (SPINDLE)	
M102	X-4917-504-1	MOTOR ASSY (SLED)	
S101	1-572-085-11	(BD)...SWITCH, LEAF (LIMIT IN)	

SECTION 8
ELECTRICAL PARTS LIST

NOTE:

- Due to standardization, replacements in the parts list may be different from the parts specified in the diagrams or the components used on the set.
- Items marked "★" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- If there are two or more same circuits in a set such as a stereophonic machine, only typical circuit parts may be indicated and capacitors and resistors in other same circuits may be omitted.

CAPACITORS:
MF: μF, PF: μμF.

RESISTORS
- All resistors are in ohms.
- F: nonflammable

COILS
- MMH: mH, UH: μH

SEMICONDUCTORS
In each case, U: μ, for example:
UA...: μA..., UPA...: μPA...,
UPC...: μPC, UPD...: μPD...

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

Les composants identifiés par une marque ⚠ sont critiques pour la sécurité.
Ne les remplacer que par une pièce portant le numéro spécifié.

Ref.No.	Part No.	Description
901	*1-562-908-11	(WG,IT)...CONNECTOR, FEMALE (NO SHIELD)
902	1-533-213-31	HOLDER, FUSE
903	*1-634-853-11	PC BOARD, TRANSFORMER
904	*1-634-850-11	PC BOARD, CHEMICAL CONDENSOR
905	*1-634-849-11	PC BOARD, POWER
906	*A-4334-274-A	(E,EA,AUS).....MOUNTED PCB, DISPLAY
	*A-4334-281-A	(EE).....MOUNTED PCB, DISPLAY
	*A-4334-284-A	(AEP).....MOUNTED PCB, DISPLAY
	*A-4334-287-A	(US,Canadian)...MOUNTED PCB, DISPLAY
	*A-4334-294-A	(WG).....MOUNTED PCB, DISPLAY
	*A-4334-296-A	(IT).....MOUNTED PCB, DISPLAY
907	*1-634-856-11	PC BOARD, REC LED
908	*1-634-857-11	PC BOARD, JACK
909	*1-634-852-11	PC BOARD, SW
910	*1-634-854-11	PC BOARD, VR
911	1-575-672-11	WIRE, FLAT TYPE (13 CORE)
912	1-575-674-11	WIRE, FLAT TYPE (8 CORE)
913	1-535-832-11	JUMPER, FILM (WITH TERMINAL)
914	1-575-673-11	WIRE, FLAT TYPE (15 CORE)
915	*A-4334-271-A	(E,EA,AUS).....MOUNTED PCB, MAIN
	*A-4334-279-A	(EE).....MOUNTED PCB, MAIN
	*A-4334-282-A	(AEP).....MOUNTED PCB, MAIN
	*A-4334-286-A	(US,Canadian)...MOUNTED PCB, MAIN
	*A-4334-292-A	(WG,IT).....MOUNTED PCB, MAIN
916	*1-635-160-11	(DECK A)...PC BOARD, SWITCH (A)
	*1-635-160-11	(DECK B)...PC BOARD, SWITCH (B)
917	1-634-461-11	PC BOARD, LOADING
918	*A-1617-371-A	MOUNTED PCB, BD
919	⚠8-848-144-11	DEVICE, OPTICAL KSS-240A
920	1-575-001-11	WIRE, FLAT TYPE (12 CORE)
ANT1	1-501-270-00	ANTENNA, TELESCOPIC
C1	1-162-195-31	(AEP,EE,E,EA,AUS) ...CERAMIC 4.7PF 10% 50V
C2	1-123-875-11	ELECT 10MF 20% 50V
C3	1-161-379-00	CERAMIC 0.01MF 30% 16V
C4	1-162-294-31	CERAMIC 0.001MF 10% 50V
C5	1-161-379-00	CERAMIC 0.01MF 30% 16V
C6	1-164-159-11	(E,EA,AUS)...CERAMIC 0.1MF 50V
C7	1-164-159-11	(EXCEPT US,Canadian) ...CERAMIC 0.1MF 50V
C8	1-161-379-00	(AEP,WG,IT,EE) ...CERAMIC 0.01MF 30% 16V
C9	1-102-120-00	(AEP,WG,IT,EE) ...CERAMIC 0.0018MF 10% 50V
C10	1-161-374-11	(AEP,WG,IT,EE) ...CERAMIC 0.0015MF 30% 16V
C21	1-161-379-00	(AEP,EE,E,EA,AUS) ...CERAMIC 0.01MF 30% 16V
C22	1-102-947-00	(E,EA,AUS)...CERAMIC 10PF 0.5PF 50V
C23	1-136-162-00	(E,EA,AUS)...FILM 0.056MF 5% 50V
C24	1-136-161-00	(E,EA,AUS)...FILM 0.047MF 5% 50V
C51	1-164-056-11	CERAMIC 27PF 5% 50V
C52	1-164-056-11	CERAMIC 27PF 5% 50V
C53	1-161-379-00	CERAMIC 0.01MF 30% 16V
C54	1-161-379-00	CERAMIC 0.01MF 30% 16V
C55	1-161-379-00	CERAMIC 0.01MF 30% 16V
C56	1-161-379-00	CERAMIC 0.01MF 30% 16V
C57	1-161-379-00	CERAMIC 0.01MF 30% 16V
C58	1-123-875-11	ELECT 10MF 20% 50V
C59	1-161-379-00	CERAMIC 0.01MF 30% 16V
C60	1-124-477-11	ELECT 47MF 20% 25V
C61	1-124-925-11	ELECT 2.2MF 20% 50V
C62	1-136-153-00	FILM 0.01MF 5% 50V
C63	1-124-463-00	ELECT 0.1MF 20% 50V
C64	1-124-902-00	(AEP,WG,IT,EE) ...ELECT 0.47MF 20% 50V
C65	1-136-157-00	(AEP,WG,IT,EE) ...FILM 0.022MF 5% 50V
C66	1-136-157-00	(AEP,WG,IT,EE) ...FILM 0.022MF 5% 50V
C67	1-162-282-31	CERAMIC 100PF 10% 50V
C81	1-161-379-00	CERAMIC 0.01MF 30% 16V
C82	1-124-472-11	ELECT 470MF 20% 10V
C83	1-161-379-00	CERAMIC 0.01MF 30% 16V
C84	1-123-875-11	ELECT 10MF 20% 50V
C85	1-161-379-00	CERAMIC 0.01MF 30% 16V
C86	1-162-282-31	CERAMIC 100PF 10% 50V
C87	1-161-379-00	CERAMIC 0.01MF 30% 16V
C88	1-123-875-11	ELECT 10MF 20% 50V
C89	1-161-379-00	CERAMIC 0.01MF 30% 16V
C90	1-124-477-11	ELECT 47MF 20% 25V
C91	1-162-294-31	CERAMIC 0.001MF 10% 50V
C92	1-162-294-31	CERAMIC 0.001MF 10% 50V
C93	1-161-375-00	CERAMIC 0.0022MF 30% 16V
C94	1-161-375-00	CERAMIC 0.0022MF 30% 16V
C95	1-124-791-11	ELECT 1MF 20% 50V
C96	1-124-791-11	ELECT 1MF 20% 50V
C97	1-124-791-11	ELECT 1MF 20% 50V
C98	1-124-791-11	ELECT 1MF 20% 50V
C99	1-136-154-00	(EXCEPT US,Canadian) ...FILM 0.012MF 5% 50V
C99	1-136-155-00	(US,Canadian) ...FILM 0.015MF 5% 50V

Ref.No.	Part No.	Description
C100	1-136-154-00	(EXCEPT US,Canadian) ...FILM 0.012MF 5% 50V
C100	1-136-155-00	(US,Canadian) ...FILM 0.015MF 5% 50V
C101	1-123-875-11	ELECT 10MF 20% 50V
C101	1-163-038-00	(BD)...CERAMIC CHIP 0.1MF 25V
C102	1-161-379-00	CERAMIC 0.01MF 30% 16V
C102	1-163-989-11	(BD)...CERAMIC CHIP 0.033MF 10% 25V
C103	1-124-463-00	ELECT 0.1MF 20% 50V
C103	1-126-094-11	(BD)...ELECT 4.7MF 20% 16V
C104	1-124-791-11	ELECT 1MF 20% 50V
C104	1-163-038-00	(BD)...CERAMIC CHIP 0.1MF 25V
C105	1-124-791-11	ELECT 1MF 20% 50V
C105	1-126-154-11	(BD)...ELECT 47MF 20% 6.3V
C106	1-124-791-11	ELECT 1MF 20% 50V
C106	1-126-154-11	(BD)...ELECT 47MF 20% 6.3V
C107	1-126-154-11	(BD)...ELECT 47MF 20% 6.3V
C107	1-162-282-31	(WG,IT)...CERAMIC 100PF 10% 50V
C108	1-162-211-31	(EXCEPT WG,IT) .....CERAMIC 33PF 5% 50V
C108	1-162-291-31	(WG,IT).....CERAMIC 560PF 10% 50V
C108	1-163-038-00	(BD)...CERAMIC CHIP 0.1MF 25V
C109	1-161-379-00	CERAMIC 0.01MF 30% 16V
C109	1-163-038-00	(BD)...CERAMIC CHIP 0.1MF 25V
C110	1-161-379-00	CERAMIC 0.01MF 30% 16V
C110	1-163-989-11	(BD)...CERAMIC CHIP 0.033MF 10% 25V
C111	1-124-925-11	ELECT 2.2MF 20% 50V
C111	1-131-367-00	(BD)...TANTALUM 22MF 20% 16V
C112	1-161-379-00	CERAMIC 0.01MF 30% 16V
C112	1-164-232-11	(BD)...CERAMIC CHIP 0.01MF 10% 50V
C113	1-161-379-00	(AEP,EE,E,EA,AUS) ...CERAMIC 0.01MF 30% 16V
C113	1-164-232-11	(BD)...CERAMIC CHIP 0.01MF 10% 50V
C114	1-161-379-00	CERAMIC 0.01MF 30% 16V
C114	1-164-161-11	(BD)...CERAMIC CHIP 0.0022MF 10% 50V
C115	1-164-161-11	(BD)...CERAMIC CHIP 0.0022MF 10% 50V
C116	1-161-379-00	CERAMIC 0.01MF 30% 16V
C117	1-161-379-00	CERAMIC 0.01MF 30% 16V
C117	1-163-038-00	(BD)...CERAMIC CHIP 0.1MF 25V
C118	1-163-038-00	(BD)...CERAMIC CHIP 0.1MF 25V
C119	1-164-161-11	(BD)...CERAMIC CHIP 0.0022MF 10% 50V
C120	1-163-989-11	(BD)...CERAMIC CHIP 0.033MF 10% 25V
C151	1-163-019-00	(BD)...CERAMIC CHIP 0.0068MF 10% 50V
C152	1-163-038-00	(BD)...CERAMIC CHIP 0.1MF 25V
C153	1-163-006-11	(BD)...CERAMIC CHIP 560PF 10% 50V
C154	1-164-161-11	(BD)...CERAMIC CHIP 0.0022MF 10% 50V
C155	1-163-023-00	(BD)...CERAMIC CHIP 0.015MF 10% 50V
C171	1-163-038-00	(BD)...CERAMIC CHIP 0.1MF 25V
C172	1-163-038-00	(BD)...CERAMIC CHIP 0.1MF 25V
C173	1-163-038-00	(BD)...CERAMIC CHIP 0.1MF 25V
C174	1-163-038-00	(BD)...CERAMIC CHIP 0.1MF 25V
C201	1-164-159-11	CERAMIC 0.1MF 50V
C211	1-136-161-00	FILM 0.047MF 5% 50V
C212	1-161-374-11	CERAMIC 0.0015MF 30% 16V
C213	1-161-379-00	CERAMIC 0.01MF 30% 16V
C214	1-124-465-00	ELECT 0.47MF 20% 50V
C215	1-164-159-11	CERAMIC 0.1MF 50V
C221	1-162-207-31	CERAMIC 22PF 5% 50V
C222	1-162-207-31	CERAMIC 22PF 5% 50V
C223	1-124-443-00	ELECT 100MF 20% 10V
C225	1-136-165-00	FILM 0.1MF 5% 50V
C229	1-123-875-11	ELECT 10MF 20% 50V
C231	1-161-374-11	CERAMIC 0.0015MF 30% 16V
C232	1-161-374-11	CERAMIC 0.0015MF 30% 16V
C233	1-162-286-31	CERAMIC 220PF 10% 50V
C234	1-162-286-31	CERAMIC 220PF 10% 50V
C235	1-124-791-11	ELECT 1MF 20% 50V
C236	1-124-791-11	ELECT 1MF 20% 50V
C237	1-123-875-11	ELECT 10MF 20% 50V
C238	1-123-875-11	ELECT 10MF 20% 50V
C251	1-162-282-31	CERAMIC 100PF 10% 50V
C252	1-162-282-31	CERAMIC 100PF 10% 50V
C253	1-162-282-31	CERAMIC 100PF 10% 50V
C254	1-162-282-31	CERAMIC 100PF 10% 50V
C255	1-162-282-31	CERAMIC 100PF 10% 50V
C256	1-161-379-00	CERAMIC 0.01MF 30% 16V
C257	1-161-379-00	CERAMIC 0.01MF 30% 16V
C258	1-161-379-00	CERAMIC 0.01MF 30% 16V
C401	1-162-282-31	CERAMIC 100PF 10% 50V
C402	1-162-282-31	CERAMIC 100PF 10% 50V
C403	1-162-290-31	CERAMIC 470PF 10% 50V
C410	1-126-157-11	ELECT 10MF 20% 16V
C416	1-124-463-00	ELECT 0.1MF 20% 50V
C417	1-126-157-11	ELECT 10MF 20% 16V
C418	1-126-157-11	ELECT 10MF 20% 16V
C419	1-126-157-11	ELECT 10MF 20% 16V
C420	1-126-157-11	ELECT 10MF 20% 16V
C421	1-126-157-11	ELECT 10MF 20% 16V
C422	1-126-157-11	ELECT 10MF 20% 16V
C423	1-161-379-00	CERAMIC 0.01MF 30% 16V
C451	1-162-282-31	CERAMIC 100PF 10% 50V
C452	1-162-282-31	CERAMIC 100PF 10% 50V
C453	1-162-290-31	CERAMIC 470PF 10% 50V
C460	1-126-157-11	ELECT 10MF 20% 16V
C471	1-162-294-31	CERAMIC 0.001MF 10% 50V
C472	1-162-294-31	CERAMIC 0.001MF 10% 50V
C473	1-162-282-31	CERAMIC 100PF 10% 50V
C474	1-162-215-31	CERAMIC 47PF 5% 50V
C475	1-164-159-11	CERAMIC 0.1MF 50V
C491	1-164-159-11	CERAMIC 0.1MF 50V
C492	1-164-159-11	CERAMIC 0.1MF 50V
C493	1-164-159-11	CERAMIC 0.1MF 50V
C494	1-164-159-11	CERAMIC 0.1MF 50V
C501	1-162-282-31	CERAMIC 100PF 10% 50V
C502	1-162-294-31	CERAMIC 0.001MF 10% 50V
C504	1-162-289-31	CERAMIC 390PF 10% 50V
C505	1-161-329-00	CERAMIC 0.0068MF 30% 16V
C506	1-162-294-31	CERAMIC 0.001MF 10% 50V
C507	1-161-494-00	CERAMIC 0.022MF 25V
C508	1-161-327-00	CERAMIC 0.0033MF 30% 16V
C509	1-164-159-11	CERAMIC 0.1MF 50V

Ref.No.	Part No.	Description			
C510	1-161-379-00	CERAMIC	0.01MF	30%	16V
C511	1-124-464-11	ELECT	0.22MF	20%	50V
C512	1-161-494-00	CERAMIC	0.022MF		25V
C513	1-126-160-11	ELECT	1MF	20%	50V
C514	1-136-163-00	FILM	0.068MF	5%	50V
C515	1-136-163-00	FILM	0.068MF	5%	50V
C521	1-161-379-00	CERAMIC	0.1MF		50V
C522	1-164-159-11	CERAMIC	0.1MF		50V
C523	1-161-379-00	CERAMIC	0.01MF	30%	16V
C524	1-161-379-00	CERAMIC	0.01MF	30%	16V
C551	1-162-282-31	CERAMIC	100PF	10%	50V
C552	1-162-294-31	CERAMIC	0.001MF	10%	50V
C554	1-162-289-31	CERAMIC	390PF	10%	50V
C555	1-161-329-00	CERAMIC	0.0068MF	30%	16V
C556	1-162-294-31	CERAMIC	0.001MF	10%	50V
C557	1-161-494-00	CERAMIC	0.022MF		25V
C558	1-161-327-00	CERAMIC	0.0033MF	30%	16V
C559	1-164-159-11	CERAMIC	0.1MF		50V
C560	1-161-379-00	CERAMIC	0.01MF	30%	16V
C561	1-124-464-11	ELECT	0.22MF	20%	50V
C562	1-161-494-00	CERAMIC	0.022MF		25V
C563	1-126-160-11	ELECT	1MF	20%	50V
C564	1-136-163-00	FILM	0.068MF	5%	50V
C565	1-136-163-00	FILM	0.068MF	5%	50V
C566	1-161-379-00	CERAMIC	0.01MF	30%	16V
C567	1-161-379-00	CERAMIC	0.01MF	30%	16V
C568	1-126-157-11	ELECT	10MF	20%	16V
C569	1-164-159-11	CERAMIC	0.1MF		50V
C571	1-124-584-00	ELECT	100MF	20%	10V
C572	1-124-584-00	ELECT	100MF	20%	10V
C573	1-126-160-11	ELECT	1MF	20%	50V
C574	1-126-160-11	ELECT	1MF	20%	50V
C578	1-164-159-11	CERAMIC	0.01MF	30%	16V
C579	1-136-173-00	FILM	0.47MF	5%	50V
C580	1-136-173-00	FILM	0.47MF	5%	50V
C581	1-136-173-00	FILM	0.47MF	5%	50V
C582	1-164-159-11	CERAMIC	0.1MF		50V
C583	1-162-282-31	CERAMIC	100PF	10%	50V
C584	1-162-282-31	CERAMIC	100PF	10%	50V
C585	1-161-379-00	CERAMIC	0.01MF	30%	16V
C586	1-161-379-00	CERAMIC	0.01MF	30%	16V
C587	1-162-282-31	CERAMIC	100PF	10%	50V
C588	1-161-379-00	CERAMIC	0.01MF	30%	16V
C589	1-161-379-00	CERAMIC	0.01MF	30%	16V
C590	1-161-379-00	CERAMIC	0.01MF	30%	16V
C592	1-162-199-31	CERAMIC	10PF	5%	50V
C593	1-162-199-31	CERAMIC	10PF	5%	50V
C594	1-162-207-31	CERAMIC	22PF	5%	50V
C595	1-162-207-31	CERAMIC	22PF	5%	50V
C596	1-125-447-11	DOBLE LAYERS	1F		5.5V
C597	1-126-157-11	ELECT	10MF	20%	16V
C601	1-162-293-31	CERAMIC	820PF	10%	50V
C602	1-162-282-31	CERAMIC	100PF	10%	50V
C603	1-136-157-00	FILM	0.022MF	5%	50V
C604	1-126-157-11	ELECT	10MF	20%	16V
C609	1-136-161-00	FILM	0.047MF	5%	50V
C610	1-161-379-00	CERAMIC	0.01MF	30%	16V

Ref.No.	Part No.	Description			
C611	1-162-293-31	CERAMIC	820PF	10%	50V
C612	1-162-282-31	CERAMIC	100PF	10%	50V
C613	1-136-157-00	FILM	0.022MF	5%	50V
C614	1-123-875-11	ELECT	10MF	20%	50V
C621	1-162-282-31	CERAMIC	100PF	10%	50V
C622	1-162-282-31	CERAMIC	100PF	10%	50V
C623	1-130-474-00	(AEP,WG,IT,EE)			
		...MYLAR	0.0018MF	5%	50V
C624	1-130-480-00	(AEP,WG,IT,EE)			
		...MYLAR	0.0056MF	5%	50V
C625	1-123-875-11	(AEP,WG,IT,EE)			
		...ELECT	10MF	20%	50V
C626	1-124-791-11	ELECT	1MF	20%	50V
C627	1-161-282-31	(AEP,WG,IT,EE)			
		...CERAMIC	100PF	10%	50V
C628	1-161-379-00	(AEP,WG,IT,EE)			
		...CERAMIC	0.01MF	30%	16V
C651	1-162-293-31	CERAMIC	820PF	10%	50V
C652	1-162-282-31	CERAMIC	100PF	10%	50V
C653	1-136-157-00	FILM	0.022MF	5%	50V
C654	1-126-157-11	ELECT	10MF	20%	16V
C657	1-162-282-31	(AEP,WG,IT,EE)			
		...CERAMIC	100PF	10%	50V
C658	1-161-379-00	(AEP,WG,IT,EE)			
		...CERAMIC	0.01MF	30%	16V
C659	1-136-161-00	FILM	0.047MF	5%	50V
C661	1-162-293-31	CERAMIC	820PF	10%	50V
C662	1-162-282-31	CERAMIC	100PF	10%	50V
C663	1-136-157-00	FILM	0.022MF	5%	50V
C664	1-123-875-11	ELECT	10MF	20%	50V
C671	1-162-282-31	CERAMIC	100PF	10%	50V
C672	1-162-282-31	CERAMIC	100PF	10%	50V
C673	1-130-474-00	(AEP,WG,IT,EE)			
		...MYLAR	0.0018MF	5%	50V
C674	1-130-480-00	(AEP,WG,IT,EE)			
		...MYLAR	0.0056MF	5%	50V
C675	1-123-875-11	(AEP,WG,IT,EE)			
		...ELECT	10MF	20%	50V
C676	1-124-791-11	ELECT	1MF	20%	50V
C701	1-162-290-31	CERAMIC	470PF	10%	50V
C702	1-162-290-31	CERAMIC	470PF	10%	50V
C703	1-124-254-00	ELECT	0.68MF	20%	50V
C704	1-123-875-11	ELECT	10MF	20%	50V
C705	1-126-157-11	ELECT	10MF	20%	16V
C706	1-124-902-00	ELECT	0.47MF	20%	50V
C707	1-124-925-11	ELECT	2.2MF	20%	50V
C709	1-123-875-11	ELECT	10MF	20%	50V
C710	1-162-288-31	CERAMIC	330PF	10%	50V
C711	1-162-282-31	CERAMIC	100PF	10%	50V
C712	1-124-443-00	ELECT	100MF	20%	10V
C713	1-161-379-00	CERAMIC	0.01MF	30%	16V
C714	1-162-294-31	CERAMIC	0.001MF	10%	50V
C721	1-161-374-11	CERAMIC	0.0015MF	30%	16V
C722	1-161-329-00	CERAMIC	0.0068MF	30%	16V
C723	1-124-791-11	ELECT	1MF	20%	50V
C724	1-124-925-11	ELECT	2.2MF	20%	50V
C725	1-136-153-00	(AEP,WG,IT,EE)			
		...FILM	0.01MF	5%	50V
C725	1-136-154-00	(US,Canadian,E,EA,AUS)			
		...FILM	0.012MF	5%	50V

Note:	Note:
The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified.	Les composants identifiés par une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

Ref.No.	Part No.	Description			
C726	1-130-475-00	(AEP,WG,IT,EE) ...MYLAR	0.0022MF	5%	50V
C727	1-130-475-00	(AEP,WG,IT,EE) ...MYLAR	0.0022MF	5%	50V
C728	1-162-286-31	CERAMIC	220PF	10%	50V
C729	1-162-286-31	CERAMIC	220PF	10%	50V
C731	1-124-927-11	ELECT	4.7MF	20%	50V
C735	1-124-443-00	ELECT	100MF	20%	10V
C736	1-161-379-00	CERAMIC	0.01MF	30%	16V
C737	1-123-875-11	ELECT	10MF	20%	50V
C738	1-161-379-00	CERAMIC	0.01MF	30%	16V
C739	1-164-159-11	CERAMIC	0.1MF		50V
C740	1-161-379-00	CERAMIC	0.01MF	30%	16V
C751	1-162-290-31	CERAMIC	470PF	10%	50V
C752	1-162-290-31	CERAMIC	470PF	10%	50V
C753	1-124-254-00	ELECT	0.68MF	20%	50V
C754	1-123-875-11	ELECT	10MF	20%	50V
C755	1-126-157-11	ELECT	10MF	20%	16V
C756	1-124-902-00	ELECT	0.47MF	20%	50V
C757	1-124-925-11	ELECT	2.2MF	20%	50V
C759	1-123-875-11	ELECT	10MF	20%	50V
C760	1-162-288-31	CERAMIC	330PF	10%	50V
C761	1-162-282-31	CERAMIC	100PF	10%	50V
C764	1-162-294-31	CERAMIC	0.001MF	10%	50V
C795	1-123-875-11	ELECT	10MF	20%	50V
C801	1-123-875-11	ELECT	10MF	20%	50V
C802	1-162-290-31	CERAMIC	470PF	10%	50V
C803	1-126-233-11	ELECT	22MF	20%	50V
C804	1-164-159-11	CERAMIC	0.1MF		50V
C805	1-164-159-11	CERAMIC	0.1MF		50V
C851	1-123-875-11	ELECT	10MF	20%	50V
C852	1-162-290-31	CERAMIC	470PF	10%	50V
C853	1-126-233-11	ELECT	22MF	20%	50V
C854	1-164-159-11	CERAMIC	0.1MF		50V
C855	1-164-159-11	CERAMIC	0.1MF		50V
C871	1-124-618-11	ELECT	2200MF	20%	35V
C872	1-124-618-11	ELECT	2200MF	20%	35V
C873	1-124-120-11	ELECT	220MF	20%	16V
C874	1-124-484-11	ELECT	220MF	20%	35V
C875	1-123-875-11	ELECT	10MF	20%	50V
C876	1-123-875-11	ELECT	10MF	20%	50V
C877	1-123-875-11	ELECT	10MF	20%	50V
C878	1-124-910-11	ELECT	47MF	20%	50V
C879	1-124-910-11	ELECT	47MF	20%	50V
C880	1-124-910-11	ELECT	47MF	20%	50V
C901	1-164-159-11	CERAMIC	0.1MF		50V
C902	1-164-159-11	CERAMIC	0.1MF		50V
C903	1-126-160-11	ELECT	1MF	20%	50V
C905	1-124-122-11	ELECT	100MF	20%	50V
C906	1-124-556-11	ELECT	2200MF	20%	16V
C907	1-124-572-11	ELECT	100MF	20%	63V
C909	1-126-094-11	ELECT	4.7MF	20%	35V
C911	1-126-094-11	ELECT	4.7MF	20%	35V
C912	1-126-157-11	ELECT	10MF	20%	16V
C913	1-126-094-11	ELECT	4.7MF	20%	35V
C915	1-126-094-11	ELECT	4.7MF	20%	35V
C916	1-126-094-11	ELECT	4.7MF	20%	35V
C917	1-126-094-11	ELECT	4.7MF	20%	35V

Ref.No.	Part No.	Description			
C920	1-164-159-11	CERAMIC	0.1MF		50V
C921	1-164-159-11	CERAMIC	0.1MF		50V
C922	1-126-094-11	ELECT	4.7MF	20%	35V
C996	1-124-927-11	ELECT	4.7MF	20%	50V
C997	1-124-791-11	ELECT	1MF	20%	50V
C998	1-126-176-11	ELECT	220MF	20%	10V
C999	1-123-875-11	ELECT	10MF	20%	50V
CB801⚠	1-532-564-00	BREAKER, CIRCUIT (2.2A)			
CB851⚠	1-532-564-00	BREAKER, CIRCUIT (2.2A)			
CF1	1-567-389-11	FILTER, CERAMIC (10.7MHz)			
CF2	1-567-389-11	(WG,IT)...FILTER, CERAMIC (10.7MHz)			
CF81	1-567-389-11	FILTER, CERAMIC (10.7MHz)			
CN1A	*1-564-498-11	PIN, CONNECTOR 5P			
CN1B	*1-564-499-11	PIN, CONNECTOR 6P			
CN101	1-568-796-11	(BD)...SOCKET, CONNECTOR 22P			
CN102	1-568-795-11	(BD)...SOCKET, CONNECTOR 12P			
CN201	*1-569-155-11	PLUG, CONNECTOR 10P			
CN202	1-568-802-11	SOCKET, CONNECTOR 19P			
CN203	*1-569-156-11	SOCKET, CONNECTOR 10P			
CN253	*1-564-339-71	PIN, CONNECTOR 5P			
CN291	*1-564-498-11	PIN, CONNECTOR 5P			
CN350	*1-564-495-11	PIN, CONNECTOR 2P			
CN401	*1-569-418-11	PIN, CONNECTOR 13P			
CN402	*1-568-856-11	SOCKET, CONNECTOR 13P			
CN403	*1-568-827-11	SOCKET, CONNECTOR 8P			
CN404	*1-564-720-11	PIN, CONNECTOR (SMALL TYPE) 4P			
CN451	*1-568-851-11	SOCKET, CONNECTOR 8P			
CN501	*1-569-156-11	SOCKET, CONNECTOR 10P			
CN502	*1-569-156-11	SOCKET, CONNECTOR 10P			
CN503	*1-509-931-11	SOCKET, CONNECTOR 13P			
CN601	*1-564-507-11	PLUG, CONNECTOR 4P			
CN602	*1-564-509-11	PLUG, CONNECTOR 6P			
CN701	*1-569-155-11	PLUG, CONNECTOR 10P			
CN702	*1-569-155-11	PLUG, CONNECTOR 10P			
CN703	*1-568-832-11	SOCKET, CONNECTOR 13P			
CN704	*1-568-834-11	SOCKET, CONNECTOR 15P			
CN721	*1-564-505-11	PLUG, CONNECTOR 2P			
CN751	*1-564-336-00	PIN, CONNECTOR 2P			
CN752	*1-564-336-71	PIN, CONNECTOR 2P			
CN785	*1-564-339-00	PIN, CONNECTOR 5P			
CN786	*1-564-340-00	PIN, CONNECTOR 6P			
CN801	*1-508-694-00	PIN, CONNECTOR 3P			
CN802	*1-564-706-11	PIN, CONNECTOR (SMALL TYPE) 4P			
CN901⚠	1-526-930-11	(US,Canadian,E,EA,AUS) ...INLET, AC (~AC IN)			
CN901⚠	1-526-931-11	(AEP,WG,IT,EE)...INLET, AC (~AC IN)			
CN902	*1-568-858-11	SOCKET, CONNECTOR 15P			
CN903	*1-565-484-11	CONNECTOR, BOARD TO BOARD 8P			
CP503	1-233-207-11	COMPOSITION CIRCUIT BLOCK (220PX13)			
CP504	1-233-207-11	COMPOSITION CIRCUIT BLOCK (220PX13)			
CT21	1-141-227-00	(E,EA,AUS)...TRIMMER			
CT22	1-141-227-00	(E,EA,AUS)...TRIMMER			
D21	8-719-902-79	(E,EA,AUS)...DIODE KV1236Z			
D81	8-719-912-20	DIODE 1SS120			
D201	8-719-010-34	DIODE UZ-4.7BSC			
D205	8-719-912-20	DIODE 1SS120			
D206	8-719-984-16	LED GL-1HY112-CD			
D207	8-719-984-17	LED GL-1EG112-CD			

Ref.No.	Part No.	Description
D208	8-719-912-20	DIODE 1SS120
D209	8-719-912-20	DIODE 1SS120
D210	8-719-912-20	DIODE 1SS120
D211	8-719-912-20	DIODE 1SS120
D300	8-719-302-75	LED SEL2210W-D
D406	8-719-912-20	DIODE 1SS120
D521	8-719-312-80	LED SEL4214R-LC05
D522	8-719-312-81	LED SEL4914R-LC05
D523	8-719-312-81	LED SEL4914R-LC05
D571	8-719-912-20	DIODE 1SS120
D572	8-719-912-20	DIODE 1SS120
D574	8-719-912-20	DIODE 1SS120
D576	8-719-912-20	DIODE 1SS120
D577	8-719-912-20	DIODE 1SS120
D578	8-719-912-20	DIODE 1SS120
D579	8-719-912-20	DIODE 1SS120
D580	8-719-912-20	DIODE 1SS120
D581	8-719-912-20	DIODE 1SS120
D582	8-719-912-20	DIODE 1SS120
D583	8-719-912-20	DIODE 1SS120
D584	8-719-912-20	DIODE 1SS120
D585	8-719-912-20	(US,Canadian,E,EA,AUS)...DIODE 1SS120
D588	8-719-912-20	(AEP,WG,E,EA,AUS)...DIODE 1SS120
D589	8-719-912-20	(IT,EE)...DIODE 1SS120
D590	8-719-912-20	(EE,E,EA,AUS)...DIODE 1SS120
D598	8-719-001-21	DIODE UZL-9H1
D601	8-719-912-20	DIODE 1SS120
D701	8-719-933-48	DIODE HZS7B3L
D721	8-719-912-20	DIODE 1SS120
D735	8-719-933-36	DIODE HZS6B1L
D736	8-719-912-20	DIODE 1SS120
D737	8-719-912-20	DIODE 1SS120
D738	8-719-912-20	DIODE 1SS120
D739	8-719-912-20	DIODE 1SS120
D785	8-719-912-20	DIODE 1SS120
D786	8-719-912-20	DIODE 1SS120
D787	8-719-912-20	DIODE 1SS120
D788	8-719-912-20	DIODE 1SS120
D789	8-719-912-20	DIODE 1SS120
D790	8-719-912-20	DIODE 1SS120
D791	8-719-912-20	DIODE 1SS120
D792	8-719-912-20	DIODE 1SS120
D793	8-719-912-20	DIODE 1SS120
D801	8-719-912-20	DIODE 1SS120
D901	8-719-912-20	DIODE 1SS120
D902	8-719-912-20	DIODE 1SS120
D903	8-719-200-82	DIODE 11ES2
D904	8-719-200-82	DIODE 11ES2
D907	8-719-200-82	DIODE 11ES2
D908	8-719-200-82	DIODE 11ES2
D909	8-719-312-09	DIODE RBA-402
D910	8-719-002-33	DIODE UZL-24L
D911	8-719-014-64	DIODE UZP-5.1BC
D912	8-719-933-36	DIODE HZS6B1L
F901 ⚠	1-532-215-00	(EXCEPT US,Canadian)...FUSE, TIME-LAG
F901 ⚠	1-532-555-00	(US,Canadian)...FUSE, GLASS TUBE (1.6A)
F902 ⚠	1-532-259-00	(E,EA,AUS)....FUSE, TIME-LAG (T 1.6A)
F999 ⚠	1-532-783-21	(US,Canadian)...FUSE, MICRO (5A/125V)

Ref.No.	Part No.	Description
FE1	1-465-007-11	(WG,IT).....FRONT END (FM)(4 GANG)
FE1	1-465-283-11	(EXCEPT WG,IT,EE)...FRONT END (2 GANG)
FE1	1-465-396-11	(EE).....FRONT END (3 GANG)
FE2	1-236-461-11	(US,Canadian)....ENCAPSULATED COMPONENT
FE2	1-236-462-11	(AEP,WG,IT,EE)...ENCAPSULATED COMPONENT
FE2	1-236-777-11	(E,EA,AUS).....ENCAPSULATED COMPONENT
FE3	1-236-463-11	(AEP,WG,IT,EE)...ENCAPSULATED COMPONENT
FL81	1-236-465-11	(WG,IT)...ENCAPSULATED COMPONENT
FLT501	1-519-577-11	INDICATOR TUBE, FLUORESCENT
HE1	1-543-673-11	HEAD, MAGNETIC (ERASE)
HP1	1-543-672-11	HEAD, MAGNETIC (REC/PB)
HRP1	1-543-672-11	HEAD, MAGNETIC (REC/PB)
IC51	8-759-239-29	IC TC9217P
IC81	8-759-821-45	IC LA1851N
IC101	8-752-037-33	(BD)...IC CXA1372Q
IC102	8-759-821-94	(BD)...IC LA6532M
IC201	8-759-150-19	IC UPD75112CW-064
IC202	8-752-333-31	IC CXD2500Q
IC221	8-752-334-06	IC CXD2551P
IC222	8-759-990-13	IC TDA1543A
IC223	8-759-634-51	IC M5218AP
IC253	8-759-633-65	IC M54641L
IC401	8-759-634-50	IC M5218AL
IC406	8-759-820-62	IC LB1639
IC451	8-759-634-50	IC M5218AL
IC501	8-759-630-99	IC M5226FP
IC502	8-759-634-50	IC M5218AL
IC505	8-759-148-52	IC UPD75212ACW-189
IC506	8-749-920-59	IC A1QH3020S
IC551	8-759-630-99	IC M5226FP
IC601	8-759-112-93	IC UPC4570HA-1
IC602	8-759-040-53	IC MC14053BCP
IC621	8-759-634-50	(AEP,WG,IT,EE)...IC M5218AL
IC661	8-759-112-93	IC UPC4570HA-1
IC701	8-759-634-50	IC M5218AL
IC702	8-752-034-26	IC CXA1101P
IC703	8-759-000-49	IC MC14066BCP
IC704	8-752-038-00	IC CXA1298AP
IC705	8-759-203-08	IC TC4052BPHB
IC706	8-759-605-16	IC M51953BL
IC785	8-759-240-01	IC TC4001BP
IC801	8-749-900-95	IC STK-4122MK2
IC901	8-759-602-66	IC M5230L-A
IC999	8-759-821-93	IC LA5601
⚠ICP999	1-532-846-21	(EXCEPT US,Canadian) ...LINK, IC PRF5000 (5A)
IFT81	1-404-853-11	TRANSFORMER, IF (CERAMIC FILTER)
IFT82	1-404-807-11	TRANSFORMER, DISCRIMINATOR
J101	1-216-295-00	(BD)...METAL GLAZE 0 5% 1/10W
J102	1-216-295-00	(BD)...METAL GLAZE 0 5% 1/10W
J401	1-562-837-21	JACK (MIX MIC)
J451	1-562-837-21	JACK (HEADPHONES)

Note:
The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

Note:
Les composants identifiés par une marque ⚠ sont critiques pour la sécurité.
Ne les remplacer que par une pièce portant le numéro spécifié.

Ref.No.	Part No.	Description
J701	1-569-181-11	(AEP,WG,IT,EE)...JACK, PIN 2P (PHONO)
J701	1-569-181-11	(US,Canadian,E,EA,AUS) ...JACK, PIN 2P (VIDEO/AUX)
L1	1-408-425-00	(AEP,WG,IT,EE)...INDUCTOR 220UH
L81	1-410-496-11	INDUCTOR 1.5MMH
L83	1-410-489-11	INDUCTOR 390UH
L701	1-410-779-21	INDUCTOR 22MMH
L721	1-410-489-11	INDUCTOR 390UH
L751	1-410-779-21	INDUCTOR 22MMH
LPF81	1-235-164-00	FILTER, LOW PASS
LPF82	1-235-164-00	FILTER, LOW PASS
M1	X-3358-211-1	(DECK A)...MOTOR (A) ASSY
M2	X-3358-211-1	(DECK B)...MOTOR (A) ASSY
M101	X-4917-523-3	MOTOR ASSY (SPINDLE)
M102	X-4917-504-1	MOTOR ASSY (SLED)
M103	A-4608-362-A	MOTOR (L) ASSY (LOADING)
Q1	8-729-620-19	TRANSISTOR 2SC2724TP-CD
Q2	8-729-620-19	(WG,IT)...TRANSISTOR 2SC2724-CD
Q3	8-729-900-80	TRANSISTOR DTC114ES
Q4	8-729-900-61	TRANSISTOR DTA114ES
Q5	8-729-900-80	(EXCEPT US,Canadian) ...TRANSISTOR DTC114ES
Q6	8-729-900-80	(EXCEPT US,Canadian) ...TRANSISTOR DTC114ES
Q7	8-729-119-76	(EXCEPT US,Canadian) ...TRANSISTOR 2SA1175-HFE
Q8	8-729-620-05	(EXCEPT US,Canadian) ...TRANSISTOR 2SC2603-EF
Q9	8-729-900-80	(EXCEPT US,Canadian) ...TRANSISTOR DTC114ES
Q10	8-729-900-80	(E,EA,AUS)...TRANSISTOR DTC114ES
Q51	8-729-202-67	TRANSISTOR 2SK246-GR3
Q52	8-729-201-84	TRANSISTOR 2SC3112B
Q53	8-729-202-67	(AEP,WG,IT,EE)...TRANSISTOR 2SK246-GR3
Q54	8-729-201-84	(AEP,WG,IT,EE)...TRANSISTOR 2SC3112B
Q101	8-729-620-05	TRANSISTOR 2SC2603-EF
Q101	8-729-901-01	(BD)...TRANSISTOR DTC144EK
Q102	8-729-620-05	TRANSISTOR 2SC2603-EF
Q103	8-729-900-80	TRANSISTOR DTC114ES
Q104	8-729-900-80	TRANSISTOR DTC114ES
Q201	8-729-620-05	TRANSISTOR 2SC2603-EF
Q231	8-729-141-26	TRANSISTOR 2SC3622A-LK
Q232	8-729-141-26	TRANSISTOR 2SC3622A-LK
Q233	8-729-900-65	TRANSISTOR DTA144ES
Q234	8-729-900-80	TRANSISTOR DTC114ES
Q252	8-729-900-80	TRANSISTOR DTC114ES
Q253	8-729-900-80	TRANSISTOR DTC114ES
Q406	8-729-904-39	TRANSISTOR DTC114TS
Q407	8-729-904-39	TRANSISTOR DTC114TS
Q456	8-729-904-39	TRANSISTOR DTC114TS
Q457	8-729-904-39	TRANSISTOR DTC114TS
Q501	8-729-904-39	TRANSISTOR DTC114TS
Q551	8-729-904-39	TRANSISTOR DTC114TS
Q572	8-729-900-61	TRANSISTOR DTA114ES
Q573	8-729-224-61	TRANSISTOR 2SK246-Y
Q574	8-729-900-80	TRANSISTOR DTC114ES
Q575	8-729-900-80	TRANSISTOR DTC114ES
Q576	8-729-620-05	TRANSISTOR 2SC2603-EF

Ref.No.	Part No.	Description
Q601	8-729-904-39	TRANSISTOR DTC114TS
Q603	8-729-900-80	TRANSISTOR DTC114ES
Q651	8-729-904-39	TRANSISTOR DTC114TS
Q721	8-729-801-93	TRANSISTOR 2SD1387
Q722	8-729-620-05	TRANSISTOR 2SC2603-EF
Q723	8-729-900-80	TRANSISTOR DTC114ES
Q731	8-729-904-39	TRANSISTOR DTC114TS
Q732	8-729-900-61	TRANSISTOR DTA114ES
Q735	8-729-111-29	TRANSISTOR 2SD1616A-K
Q736	8-729-920-98	TRANSISTOR 2SD1761-EF
Q737	8-729-900-80	TRANSISTOR DTC114ES
Q738	8-729-900-61	TRANSISTOR DTA114ES
Q739	8-729-900-89	TRANSISTOR DTC144ES
Q740	8-729-900-89	TRANSISTOR DTC144ES
Q781	8-729-904-39	TRANSISTOR DTC114TS
Q785	8-729-801-93	TRANSISTOR 2SD1387
Q786	8-729-900-80	TRANSISTOR DTC114ES
Q787	8-729-900-80	TRANSISTOR DTC114ES
Q789	8-729-900-80	TRANSISTOR DTC114ES
Q790	8-729-900-80	TRANSISTOR DTC114ES
Q791	8-729-900-80	TRANSISTOR DTC114ES
Q801	8-729-900-80	TRANSISTOR DTC114ES
Q901	8-729-620-05	TRANSISTOR 2SC2603-EF
Q903	8-729-920-97	TRANSISTOR 2SB1187-EF
Q904	8-729-920-97	TRANSISTOR 2SB1187-EF
Q905	8-729-920-98	TRANSISTOR 2SD1761-EF
Q906	8-729-920-98	TRANSISTOR 2SD1761-EF
Q907	8-729-900-80	TRANSISTOR DTC114ES
Q908	8-729-900-80	TRANSISTOR DTC114ES
Q999	8-729-900-80	TRANSISTOR DTC114ES
R1	1-249-411-11	CARBON 330 5% 1/4W
R2	1-249-411-11	CARBON 330 5% 1/4W
R3	1-247-891-00	CARBON 330K 5% 1/4W
R4	1-249-411-11	CARBON 330 5% 1/4W
R5	1-247-891-00	(WG,IT)...CARBON 330K 5% 1/4W
R6	1-249-411-11	(WG,IT)...CARBON 330 5% 1/4W
R7	1-249-405-11	CARBON 100 5% 1/4W
R8	1-249-441-11	CARBON 100K 5% 1/4W
R9	1-249-437-11	CARBON 47K 5% 1/4W
R10	1-249-437-11	(AEP,WG,IT,EE)...CARBON 47K 5% 1/4W
R10	1-249-421-11	(E,EA,AUS).....CARBON 2.2K 5% 1/4W
R11	1-249-421-11	(AEP,WG,IT,EE)...CARBON 2.2K 5% 1/4W
R11	1-249-429-11	(E,EA,AUS).....CARBON 10K 5% 1/4W
R12	1-249-421-11	(AEP,WG,IT,EE)...CARBON 2.2K 5% 1/4W
R12	1-249-429-11	(E,EA,AUS).....CARBON 10K 5% 1/4W
R13	1-249-433-11	(AEP,WG,IT,EE)...CARBON 22K 5% 1/4W
R14	1-249-432-11	(AEP,WG,IT,EE)...CARBON 18K 5% 1/4W
R15	1-247-903-00	(AEP,WG,IT,EE)...CARBON 1M 5% 1/4W
R20	1-249-425-11	(EXCEPT US,Canadian) ...CARBON 4.7K 5% 1/4W
R21	1-249-429-11	(E,EA,AUS).....CARBON 10K 5% 1/4W
R22	1-249-429-11	(E,EA,AUS).....CARBON 10K 5% 1/4W
R51	1-249-417-11	CARBON 1K 5% 1/4W
R52	1-249-417-11	CARBON 1K 5% 1/4W

Ref.No.	Part No.	Description			
R53	1-249-441-11	CARBON	100K	5%	1/4W
R54	1-249-417-11	CARBON	1K	5%	1/4W
R55	1-249-425-11	CARBON	4.7K	5%	1/4W
R56	1-249-405-11	CARBON	100	5%	1/4W
R57	1-249-401-11	CARBON	47	5%	1/4W
R58	1-249-423-11	CARBON	3.3K	5%	1/4W
R59	1-249-414-11	CARBON	560	5%	1/4W
R60	1-249-417-11	CARBON	1K	5%	1/4W
R61	1-249-410-11	CARBON	270	5%	1/4W
R62	1-249-418-11	CARBON	1.2K	5%	1/4W
R63	1-249-421-11	CARBON	2.2K	5%	1/4W
R64	1-249-425-11	CARBON	4.7K	5%	1/4W
R65	1-249-425-11	CARBON	4.7K	5%	1/4W
R66	1-249-405-11	CARBON	100	5%	1/4W
R67	1-249-423-11	(AEP,WG,IT,EE)...CARBON	3.3K	5%	1/4W
R68	1-249-414-11	(AEP,WG,IT,EE)...CARBON	560	5%	1/4W
R69	1-249-417-11	(AEP,WG,IT,EE)...CARBON	1K	5%	1/4W
R70	1-249-410-11	(AEP,WG,IT,EE)...CARBON	270	5%	1/4W
R71	1-249-433-11	(AEP,WG,IT,EE)...CARBON	22K	5%	1/4W
R72	1-249-421-11	(AEP,WG,IT,EE)...CARBON	2.2K	5%	1/4W
R73	1-249-425-11	(AEP,WG,IT,EE)...CARBON	4.7K	5%	1/4W
R74	1-249-425-11	(AEP,WG,IT,EE)...CARBON	4.7K	5%	1/4W
R75	1-249-393-11	CARBON	10	5%	1/4W
R81	1-249-433-11	CARBON	22K	5%	1/4W
R82	1-249-417-11	CARBON	1K	5%	1/4W
R83	1-249-399-11	CARBON	33	5%	1/4W
R84	1-249-429-11	CARBON	10K	5%	1/4W
R85	1-249-429-11	CARBON	10K	5%	1/4W
R86	1-249-437-11	CARBON	47K	5%	1/4W
R87	1-249-409-11	CARBON	220	5%	1/4W
R88	1-249-429-11	CARBON	10K	5%	1/4W
R89	1-249-429-11	CARBON	10K	5%	1/4W
R90	1-249-421-11	CARBON	2.2K	5%	1/4W
R91	1-249-421-11	CARBON	2.2K	5%	1/4W
R92	1-247-891-00	CARBON	330K	5%	1/4W
R93	1-247-891-00	CARBON	330K	5%	1/4W
R94	1-249-417-11	CARBON	1K	5%	1/4W
R95	1-249-417-11	CARBON	1K	5%	1/4W
R96	1-249-425-11	CARBON	4.7K	5%	1/4W
R97	1-249-425-11	CARBON	4.7K	5%	1/4W
R98	1-249-404-00	CARBON	82	5%	1/4W
R99	1-249-417-11	CARBON	1K	5%	1/4W
R100	1-247-848-11	CARBON	5.1K	5%	1/4W
R101	1-216-097-00	(BD)...METAL GLAZE	100K	5%	1/10W
R102	1-216-097-00	(BD)...METAL GLAZE	100K	5%	1/10W
R102	1-249-430-11	(EXCEPT WG,IT)...CARBON	12K	5%	1/4W
R103	1-216-091-00	(BD)...METAL GLAZE	56K	5%	1/10W
R103	1-249-428-11	CARBON	8.2K	5%	1/4W
R104	1-216-099-00	(BD)...METAL GLAZE	120K	5%	1/10W
R104	1-249-435-11	CARBON	33K	5%	1/4W
R105	1-216-069-00	(BD)...METAL GLAZE	6.8K	5%	1/10W
R105	1-249-431-11	CARBON	15K	5%	1/4W
R106	1-216-061-00	(BD)...METAL GLAZE	3.3K	5%	1/10W
R106	1-249-417-11	CARBON	1K	5%	1/4W
R107	1-216-114-00	(BD)...METAL GLAZE	510K	5%	1/10W
R107	1-249-430-11	(WG,IT)...CARBON	12K	5%	1/4W

Ref.No.	Part No.	Description			
R108	1-216-105-00	(BD)...METAL GLAZE	220K	5%	1/10W
R108	1-249-417-11	CARBON	1K	5%	1/4W
R109	1-216-061-00	(BD)...METAL GLAZE	3.3K	5%	1/10W
R110	1-216-049-00	(BD)...METAL GLAZE	1K	5%	1/10W
R111	1-216-049-00	(BD)...METAL GLAZE	1K	5%	1/10W
R112	1-216-083-00	(BD)...METAL GLAZE	27K	5%	1/10W
R113	1-216-071-00	(BD)...METAL GLAZE	8.2K	5%	1/10W
R114	1-216-105-00	(BD)...METAL GLAZE	220K	5%	1/10W
R152	1-216-073-00	(BD)...METAL GLAZE	10K	5%	1/10W
R153	1-216-085-00	(BD)...METAL GLAZE	33K	5%	1/10W
R154	1-216-085-00	(BD)...METAL GLAZE	33K	5%	1/10W
R155	1-216-093-00	(BD)...METAL GLAZE	68K	5%	1/10W
R156	1-216-081-00	(BD)...METAL GLAZE	22K	5%	1/10W
R157	1-216-079-00	(BD)...METAL GLAZE	18K	5%	1/10W
R158	1-216-079-00	(BD)...METAL GLAZE	18K	5%	1/10W
R159	1-216-079-00	(BD)...METAL GLAZE	18K	5%	1/10W
R160	1-216-049-00	(BD)...METAL GLAZE	1K	5%	1/10W
R171	1-216-001-00	(BD)...METAL GLAZE	10	5%	1/10W
R172	1-216-001-00	(BD)...METAL GLAZE	10	5%	1/10W
R173	1-216-001-00	(BD)...METAL GLAZE	10	5%	1/10W
R174	1-216-001-00	(BD)...METAL GLAZE	10	5%	1/10W
R201	1-249-441-11	CARBON	100K	5%	1/4W
R202	1-249-441-11	CARBON	100K	5%	1/4W
R203	1-249-422-11	CARBON	2.7K	5%	1/4W
R204	1-249-422-11	CARBON	2.7K	5%	1/4W
R205	1-249-437-11	CARBON	47K	5%	1/4W
R206	1-249-437-11	CARBON	47K	5%	1/4W
R207	1-249-437-11	CARBON	47K	5%	1/4W
R208	1-249-437-11	CARBON	47K	5%	1/4W
R209	1-249-441-11	CARBON	100K	5%	1/4W
R210	1-249-437-11	CARBON	47K	5%	1/4W
R211	1-249-423-11	CARBON	3.3K	5%	1/4W
R212	1-249-423-11	CARBON	3.3K	5%	1/4W
R213	1-249-429-11	CARBON	10K	5%	1/4W
R214	1-249-437-11	CARBON	47K	5%	1/4W
R215	1-249-429-11	CARBON	10K	5%	1/4W
R216	1-249-441-11	CARBON	100K	5%	1/4W
R217	1-249-411-11	CARBON	330	5%	1/4W
R218	1-249-411-11	CARBON	330	5%	1/4W
R219	1-249-417-11	CARBON	1K	5%	1/4W
R220	1-249-421-11	CARBON	2.2K	5%	1/4W
R221	1-249-405-11	CARBON	100	5%	1/4W
R222	1-249-405-11	CARBON	100	5%	1/4W
R223	1-249-417-11	CARBON	1K	5%	1/4W
R224	1-249-417-11	CARBON	1K	5%	1/4W
R225	1-249-417-11	CARBON	1K	5%	1/4W
R226	1-249-417-11	CARBON	1K	5%	1/4W
R231	1-249-429-11	CARBON	10K	5%	1/4W
R232	1-249-425-11	CARBON	4.7K	5%	1/4W
R233	1-249-429-11	CARBON	10K	5%	1/4W
R234	1-249-393-11	CARBON	10	5%	1/4W
R235	1-249-417-11	CARBON	1K	5%	1/4W
R236	1-249-417-11	CARBON	1K	5%	1/4W
R237	1-249-419-11	CARBON	1.5K	5%	1/4W
R238	1-249-419-11	CARBON	1.5K	5%	1/4W
R239	1-249-433-11	CARBON	22K	5%	1/4W

Ref.No.	Part No.	Description			
R241	1-249-413-11	CARBON	470	5%	1/4W
R242	1-249-417-11	CARBON	1K	5%	1/4W
R243	1-249-411-11	CARBON	330	5%	1/4W
R244	1-249-411-11	CARBON	330	5%	1/4W
R245	1-249-421-11	CARBON	2.2K	5%	1/4W
R247	1-249-433-11	CARBON	22K	5%	1/4W
R248	1-249-421-11	CARBON	2.2K	5%	1/4W
R249	1-249-429-11	CARBON	10K	5%	1/4W
R250	1-249-429-11	CARBON	10K	5%	1/4W
R251	1-249-425-11	CARBON	4.7K	5%	1/4W
R252	1-249-425-11	CARBON	4.7K	5%	1/4W
R286	1-249-405-11	CARBON	100	5%	1/4W
R287	1-249-405-11	CARBON	100	5%	1/4W
R288	1-249-405-11	CARBON	100	5%	1/4W
R289	1-249-405-11	CARBON	100	5%	1/4W
R290	1-249-405-11	CARBON	100	5%	1/4W
R291	1-249-413-11	CARBON	470	5%	1/4W
R292	1-249-413-11	CARBON	470	5%	1/4W
R293	1-249-413-11	CARBON	470	5%	1/4W
R294	1-249-413-11	CARBON	470	5%	1/4W
R295	1-249-405-11	CARBON	100	5%	1/4W
R296	1-249-405-11	CARBON	100	5%	1/4W
R297	1-249-405-11	CARBON	100	5%	1/4W
R298	1-249-405-11	CARBON	100	5%	1/4W
R299	1-249-441-11	CARBON	100K	5%	1/4W
R401	1-249-417-11	CARBON	1K	5%	1/4W
R402	1-249-441-11	CARBON	100K	5%	1/4W
R403	1-249-441-11	CARBON	100K	5%	1/4W
R404	1-249-425-11	CARBON	4.7K	5%	1/4W
R405	1-249-401-11	CARBON	47	5%	1/4W
R406	1-249-429-11	CARBON	10K	5%	1/4W
R416	1-249-425-11	CARBON	4.7K	5%	1/4W
R417	1-249-425-11	CARBON	4.7K	5%	1/4W
R418	1-249-425-11	CARBON	4.7K	5%	1/4W
R419	1-249-417-11	CARBON	1K	5%	1/4W
R426	1-249-417-11	CARBON	1K	5%	1/4W
R427	1-249-441-11	CARBON	100K	5%	1/4W
R428	1-247-903-00	CARBON	1M	5%	1/4W
R429	1-249-417-11	CARBON	1K	5%	1/4W
R430	1-249-425-11	CARBON	4.7K	5%	1/4W
R431	1-249-425-11	CARBON	4.7K	5%	1/4W
R432	1-249-429-11	CARBON	10K	5%	1/4W
R451	1-249-417-11	CARBON	1K	5%	1/4W
R452	1-249-441-11	CARBON	100K	5%	1/4W
R453	1-249-441-11	CARBON	100K	5%	1/4W
R454	1-249-425-11	CARBON	4.7K	5%	1/4W
R455	1-249-401-11	CARBON	47	5%	1/4W
R456	1-249-429-11	CARBON	10K	5%	1/4W
R457	1-249-429-11	CARBON	10K	5%	1/4W
R466	1-249-425-11	CARBON	4.7K	5%	1/4W
R467	1-249-425-11	CARBON	4.7K	5%	1/4W
R468	1-249-425-11	CARBON	4.7K	5%	1/4W
R469	1-249-417-11	CARBON	1K	5%	1/4W
R471	1-249-429-11	CARBON	10K	5%	1/4W
R472	1-249-411-11	CARBON	330	5%	1/4W
R473	1-249-441-11	CARBON	100K	5%	1/4W
R474	1-249-411-11	CARBON	330	5%	1/4W

Ref.No.	Part No.	Description			
R475	1-249-441-11	CARBON	100K	5%	1/4W
R486	1-249-413-11	CARBON	470	5%	1/4W
R487	1-249-429-11	CARBON	10K	5%	1/4W
R501	1-247-903-00	CARBON	1M	5%	1/4W
R502	1-249-425-11	CARBON	4.7K	5%	1/4W
R503	1-249-411-11	CARBON	330	5%	1/4W
R504	1-247-903-00	CARBON	1M	5%	1/4W
R505	1-249-419-11	CARBON	1.5K	5%	1/4W
R506	1-249-434-11	CARBON	27K	5%	1/4W
R507	1-247-903-00	CARBON	1M	5%	1/4W
R522	1-249-411-11	CARBON	330	5%	1/4W
R523	1-249-411-11	CARBON	330	5%	1/4W
R524	1-249-439-11	CARBON	68K	5%	1/4W
R525	1-249-417-11	CARBON	1K	5%	1/4W
R526	1-249-405-11	CARBON	100	5%	1/4W
R527	1-249-405-11	CARBON	100	5%	1/4W
R528	1-249-405-11	CARBON	100	5%	1/4W
R529	1-249-405-11	CARBON	100	5%	1/4W
R530	1-249-405-11	CARBON	100	5%	1/4W
R531	1-249-405-11	CARBON	100	5%	1/4W
R534	1-249-405-11	CARBON	100	5%	1/4W
R535	1-249-405-11	CARBON	100	5%	1/4W
R536	1-249-405-11	CARBON	100	5%	1/4W
R537	1-249-429-11	CARBON	10K	5%	1/4W
R551	1-247-903-00	CARBON	1M	5%	1/4W
R552	1-249-425-11	CARBON	4.7K	5%	1/4W
R553	1-249-411-11	CARBON	330	5%	1/4W
R554	1-247-903-00	CARBON	1M	5%	1/4W
R555	1-249-419-11	CARBON	1.5K	5%	1/4W
R556	1-249-434-11	CARBON	27K	5%	1/4W
R557	1-247-903-00	CARBON	1M	5%	1/4W
R564	1-247-887-00	CARBON	220K	5%	1/4W
R568	1-249-441-11	CARBON	100K	5%	1/4W
R569	1-249-429-11	CARBON	10K	5%	1/4W
R570	1-249-417-11	CARBON	1K	5%	1/4W
R571	1-249-441-11	CARBON	100K	5%	1/4W
R572	1-247-891-00	CARBON	330K	5%	1/4W
R573	1-249-425-11	CARBON	4.7K	5%	1/4W
R574	1-249-441-11	CARBON	100K	5%	1/4W
R577	1-249-405-11	CARBON	100	5%	1/4W
R582	1-249-429-11	CARBON	10K	5%	1/4W
R596	1-249-429-11	CARBON	10K	5%	1/4W
R598	1-249-413-11	CARBON	470	5%	1/4W
R599	1-249-429-11	CARBON	10K	5%	1/4W
R601	1-247-881-00	CARBON	120K	5%	1/4W
R602	1-249-405-11	CARBON	100	5%	1/4W
R603	1-247-832-11	CARBON	130K	5%	1/4W
R604	1-249-426-11	CARBON	5.6K	5%	1/4W
R605	1-249-409-11	CARBON	220	5%	1/4W
R606	1-249-441-11	CARBON	100K	5%	1/4W
R607	1-249-418-11	CARBON	1.2K	5%	1/4W
R609	1-249-420-11	CARBON	1.8K	5%	1/4W
R610	1-247-887-00	CARBON	220K	5%	1/4W
R611	1-247-881-00	CARBON	120K	5%	1/4W
R612	1-249-405-11	CARBON	100	5%	1/4W
R613	1-247-832-11	CARBON	130K	5%	1/4W
R614	1-249-426-11	CARBON	5.6K	5%	1/4W

Ref.No.	Part No.	Description
R615	1-249-409-11	CARBON 220 5% 1/4W
R616	1-249-441-11	CARBON 100K 5% 1/4W
R617	1-249-441-11	CARBON 100K 5% 1/4W
R621	1-249-417-11	CARBON 1K 5% 1/4W
R622	1-249-437-11	CARBON 47K 5% 1/4W
R623	1-249-437-11	(AEP,WG,IT,EE)...CARBON 47K 5% 1/4W
R624	1-247-897-11	(AEP,WG,IT,EE)...CARBON 560K 5% 1/4W
R625	1-249-417-11	(AEP,WG,IT,EE)...CARBON 1K 5% 1/4W
R626	1-249-425-11	CARBON 4.7K 5% 1/4W
R627	1-249-437-11	CARBON 47K 5% 1/4W
R651	1-247-881-00	CARBON 120K 5% 1/4W
R652	1-249-405-11	CARBON 100 5% 1/4W
R653	1-247-882-11	CARBON 130K 5% 1/4W
R654	1-249-426-11	CARBON 5.6K 5% 1/4W
R655	1-249-409-11	CARBON 220 5% 1/4W
R656	1-249-441-11	CARBON 100K 5% 1/4W
R657	1-249-418-11	CARBON 1.2K 5% 1/4W
R659	1-249-420-11	CARBON 1.8K 5% 1/4W
R660	1-247-887-00	CARBON 220K 5% 1/4W
R661	1-247-881-00	CARBON 120K 5% 1/4W
R662	1-249-405-11	CARBON 100 5% 1/4W
R663	1-247-882-11	CARBON 130K 5% 1/4W
R664	1-249-426-11	CARBON 5.6K 5% 1/4W
R665	1-249-409-11	CARBON 220 5% 1/4W
R666	1-249-441-11	CARBON 100K 5% 1/4W
R671	1-249-417-11	CARBON 1K 5% 1/4W
R672	1-249-437-11	CARBON 47K 5% 1/4W
R673	1-249-437-11	(AEP,WG,IT,EE)...CARBON 47K 5% 1/4W
R674	1-247-897-11	(AEP,WG,IT,EE)...CARBON 560K 5% 1/4W
R675	1-249-417-11	(AEP,WG,IT,EE)...CARBON 1K 5% 1/4W
R676	1-249-425-11	CARBON 4.7K 5% 1/4W
R677	1-249-437-11	CARBON 47K 5% 1/4W
R701	1-249-437-11	CARBON 47K 5% 1/4W
R702	1-249-421-11	CARBON 2.2K 5% 1/4W
R704	1-249-431-11	CARBON 15K 5% 1/4W
R705	1-249-437-11	CARBON 47K 5% 1/4W
R706	1-249-426-11	CARBON 5.6K 5% 1/4W
R708	1-249-437-11	CARBON 47K 5% 1/4W
R709	1-247-870-11	CARBON 43K 5% 1/4W
R710	1-249-437-11	CARBON 47K 5% 1/4W
R711	1-249-429-11	CARBON 10K 5% 1/4W
R712	1-249-426-11	CARBON 5.6K 5% 1/4W
R713	1-249-430-11	CARBON 12K 5% 1/4W
R714	1-249-429-11	CARBON 10K 5% 1/4W
R715	1-247-864-11	CARBON 24K 5% 1/4W
R716	1-249-441-11	CARBON 100K 5% 1/4W
R717	1-249-429-11	CARBON 10K 5% 1/4W
R721	1-249-423-11	CARBON 3.3K 5% 1/4W
R722	1-249-438-11	(AEP,WG,IT,EE)...CARBON 56K 5% 1/4W
R722	1-249-431-11	(US,Canadian,E,EA,AUS) ...CARBON 15K 5% 1/4W
R723	1-249-433-11	(AEP,WG,IT,EE)...CARBON 22K 5% 1/4W
R724	1-249-437-11	(AEP,WG,IT,EE)...CARBON 47K 5% 1/4W
R725	1-249-427-11	CARBON 6.8K 5% 1/4W
R726	1-249-437-11	CARBON 47K 5% 1/4W
R727	1-249-388-11	CARBON 3.9 5% 1/4W
R729	1-249-417-11	CARBON 1K 5% 1/4W

Ref.No.	Part No.	Description
R731	1-249-421-11	CARBON 2.2K 5% 1/4W
R732	1-249-425-11	CARBON 4.7K 5% 1/4W
R733	1-249-429-11	CARBON 10K 5% 1/4W
R734	1-249-437-11	CARBON 47K 5% 1/4W
R735	1-249-413-11	CARBON 470 5% 1/4W
R736	1-249-411-11	CARBON 330 5% 1/4W
R737	1-249-405-11	CARBON 100 5% 1/4W
R738	1-249-414-11	CARBON 560 5% 1/4W
R739	1-249-429-11	CARBON 10K 5% 1/4W
R740	1-249-429-11	CARBON 10K 5% 1/4W
R741	1-249-429-11	CARBON 10K 5% 1/4W
R742	1-249-437-11	CARBON 47K 5% 1/4W
R743	1-249-429-11	CARBON 10K 5% 1/4W
R744	1-249-425-11	CARBON 4.7K 5% 1/4W
R747	1-249-405-11	CARBON 100 5% 1/4W
R748	1-249-405-11	CARBON 100 5% 1/4W
R751	1-249-437-11	CARBON 47K 5% 1/4W
R752	1-249-421-11	CARBON 2.2K 5% 1/4W
R754	1-249-431-11	CARBON 15K 5% 1/4W
R755	1-249-437-11	CARBON 47K 5% 1/4W
R756	1-249-426-11	CARBON 5.6K 5% 1/4W
R758	1-249-437-11	CARBON 47K 5% 1/4W
R760	1-249-437-11	CARBON 47K 5% 1/4W
R761	1-249-429-11	CARBON 10K 5% 1/4W
R762	1-249-426-11	CARBON 5.6K 5% 1/4W
R763	1-249-430-11	CARBON 12K 5% 1/4W
R781	1-249-421-11	CARBON 2.2K 5% 1/4W
R782	1-249-425-11	CARBON 4.7K 5% 1/4W
R785	1-249-421-11	CARBON 2.2K 5% 1/4W
R786	1-249-421-11	CARBON 2.2K 5% 1/4W
R787	1-249-421-11	CARBON 2.2K 5% 1/4W
R788	1-249-421-11	CARBON 2.2K 5% 1/4W
R789	1-249-421-11	CARBON 2.2K 5% 1/4W
R790	1-249-421-11	CARBON 2.2K 5% 1/4W
R791	1-249-429-11	CARBON 10K 5% 1/4W
R792	1-249-418-11	CARBON 1.2K 5% 1/4W
R793	1-249-441-11	CARBON 100K 5% 1/4W
R794	1-249-425-11	CARBON 4.7K 5% 1/4W
R795	1-249-429-11	CARBON 10K 5% 1/4W
R796	1-249-429-11	CARBON 10K 5% 1/4W
R797	1-249-432-11	CARBON 18K 5% 1/4W
R798	1-249-421-11	CARBON 2.2K 5% 1/4W
R799	1-249-429-11	CARBON 10K 5% 1/4W
R801	1-249-417-11	CARBON 1K 5% 1/4W
R802	1-249-438-11	CARBON 56K 5% 1/4W
R803	1-249-413-11	CARBON 470 5% 1/4W
R804	1-249-438-11	CARBON 56K 5% 1/4W
R805	1-249-389-11	CARBON 4.7 5% 1/4W
R826	1-249-417-11	CARBON 1K 5% 1/4W
R851	1-249-417-11	CARBON 1K 5% 1/4W
R852	1-249-438-11	CARBON 56K 5% 1/4W
R853	1-249-413-11	CARBON 470 5% 1/4W
R854	1-249-438-11	CARBON 56K 5% 1/4W
R855	1-249-389-11	CARBON 4.7 5% 1/4W
R871	1-249-429-11	CARBON 10K 5% 1/4W
R872	1-249-437-11	CARBON 47K 5% 1/4W
R873	1-249-429-11	CARBON 10K 5% 1/4W
R874	1-247-883-00	CARBON 150K 5% 1/4W

Note:
The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified.

Note:
Les composants identifiés par une marque ⚠ sont critiques pour la sécurité.
Ne les remplacer que par une pièce portant le numéro spécifié.

Ref.No.	Part No.	Description				
R875	1-249-421-11	CARBON	2.2K	5%	1/4W	
R876	1-249-421-11	CARBON	2.2K	5%	1/4W	
R877 ⚠	1-212-881-11	FUSIBLE	100	5%	1/4W	F
R878	1-249-417-11	CARBON	1K	5%	1/4W	
R879	1-249-417-11	CARBON	1K	5%	1/4W	
R880 ⚠	1-212-881-11	FUSIBLE	100	5%	1/4W	F
R881	1-249-421-11	CARBON	2.2K	5%	1/4W	
R882	1-249-421-11	CARBON	2.2K	5%	1/4W	
R883 ⚠	1-212-881-11	FUSIBLE	100	5%	1/4W	F
R901	1-249-419-11	CARBON	1.5K	5%	1/4W	
R902	1-249-429-11	CARBON	10K	5%	1/4W	
R903	1-249-421-11	CARBON	2.2K	5%	1/4W	
R904	1-249-433-11	CARBON	22K	5%	1/4W	
R905 ⚠	1-212-934-00	FUSIBLE	1	5%	1/2W	F
R906 ⚠	1-212-934-00	FUSIBLE	1	5%	1/2W	F
R907 ⚠	1-212-934-00	FUSIBLE	1	5%	1/2W	F
R908	1-249-425-11	CARBON	4.7K	5%	1/4W	
R909	1-249-433-11	CARBON	22K	5%	1/4W	
R910	1-247-903-00	CARBON	1M	5%	1/4W	
R911	1-249-405-11	CARBON	100	5%	1/4W	
R912	1-249-432-11	CARBON	18K	5%	1/4W	
R913	1-249-432-11	CARBON	18K	5%	1/4W	
R914	1-247-842-11	CARBON	3K	5%	1/4W	
R915	1-249-429-11	CARBON	10K	5%	1/4W	
R917	1-249-413-11	CARBON	470	5%	1/4W	
R926	1-202-725-00	(US,Canadian)...SOLID 3.3M 10% 1/2W				
RV81	1-238-017-11	RES, ADJ, CARBON 22K				
RV82	1-238-017-11	RES, ADJ, CARBON 22K				
RV101	1-238-016-11	(BD)...RES, ADJ, CARBON 10K				
RV102	1-238-016-11	(BD)...RES, ADJ, CARBON 10K				
RV406	1-238-865-11	RES, VAR, CARBON (MOTOR)100K/100K (VOLUME)(INCLUDING VOL LED)				
RV501	1-238-867-11	RES, VAR, SLIDE 250K (12kHz)				
RV502	1-238-867-11	RES, VAR, SLIDE 250K (4kHz)				
RV503	1-238-867-11	RES, VAR, SLIDE 250K (1kHz)				
RV504	1-238-867-11	RES, VAR, SLIDE 250K (400Hz)				
RV505	1-238-867-11	RES, VAR, SLIDE 250K (100Hz)				
RV551	1-238-867-11	RES, VAR, SLIDE 250K (12kHz)				
RV552	1-238-867-11	RES, VAR, SLIDE 250K (4kHz)				
RV553	1-238-867-11	RES, VAR, SLIDE 250K (1kHz)				
RV554	1-238-867-11	RES, VAR, SLIDE 250K (400Hz)				
RV555	1-238-867-11	RES, VAR, SLIDE 250K (100Hz)				
RV601	1-238-011-11	RES, ADJ, CARBON 470				
RV611	1-238-011-11	RES, ADJ, CARBON 470				
RV651	1-238-011-11	RES, ADJ, CARBON 470				
RV661	1-238-011-11	RES, ADJ, CARBON 470				
RV701	1-238-017-11	RES, ADJ, CARBON 22K				
RV721	1-238-019-11	RES, ADJ, CARBON 47K				
RV722	1-238-019-11	RES, ADJ, CARBON 47K				
RV751	1-238-017-11	RES, ADJ, CARBON 22K				
RY601	1-515-614-21	RELAY				
S1A	1-572-335-11	(DECK A)...SWITCH, LEAF (Cr02)				
S1B	1-572-335-11	(DECK B)...SWITCH, LEAF (Cr02)				
S2A	1-571-736-11	(DECK A)...SWITCH, LEAF (MD POWER)				
S2B	1-571-736-11	(DECK B)...SWITCH, LEAF (MD POWER)				

Ref.No.	Part No.	Description
S3A	1-571-736-11	(DECK A)...SWITCH, LEAF (PLAY)
S3B	1-571-736-11	(DECK B)...SWITCH, LEAF (PLAY)
S4B	1-571-736-11	(DECK B)...SWITCH, LEAF (REC)
S101	1-572-085-11	(BD)...SWITCH, LEAF (LIMIT IN)
S201	1-572-184-11	SWITCH, KEYBOARD (EDIT)
S202	1-572-184-11	SWITCH, KEYBOARD (■)
S203	1-572-184-11	SWITCH, KEYBOARD (▶II)
S204	1-572-184-11	SWITCH, KEYBOARD (⏏ OPEN/CLOSE)
S205	1-572-184-11	SWITCH, KEYBOARD (▶▶I)
S206	1-572-184-11	SWITCH, KEYBOARD (I◀◀)
S207	1-572-184-11	SWITCH, KEYBOARD (▶▶)
S208	1-572-184-11	SWITCH, KEYBOARD (◀◀)
S209	1-572-184-11	SWITCH, KEYBOARD (REPEAT)
S210	1-572-184-11	SWITCH, KEYBOARD (CONTINUE)
S211	1-572-184-11	SWITCH, KEYBOARD (SHUFFLE)
S212	1-572-184-11	SWITCH, KEYBOARD (PROGLAM)
S214	1-572-184-11	SWITCH, KEYBOARD (TIME)
S291	1-571-924-11	SWITCH, LEAF (LOAD OUT)
S292	1-571-924-11	SWITCH, LEAF (LOAD IN)
S350	1-553-977-00	SWITCH, SLIDE (DOLBY NR)
S501	1-572-184-11	SWITCH, KEYBOARD (TIMER CONTROL)
S502	1-572-184-11	SWITCH, KEYBOARD (SLEEP)
S503	1-572-184-11	SWITCH, KEYBOARD (TIMER SET)
S504	1-572-184-11	SWITCH, KEYBOARD (CLOCK SET)
S505	1-572-184-11	SWITCH, KEYBOARD (CLOCK DISPLAY)
S506	1-572-184-11	SWITCH, KEYBOARD (POWER)
S507	1-572-184-11	(AEP,WG,IT,EE)...SWITCH, KEYBOARD(DBFB)
S507	1-572-184-11	(US,Canadian,E,EA,AUS) ...SWITCH, KEYBOARD(SAT)
S508	1-572-184-11	SWITCH, KEYBOARD (SURROUND)
S509	1-572-184-11	SWITCH, KEYBOARD (TAPE)
S510	1-572-184-11	SWITCH, KEYBOARD (CD)
S511	1-572-184-11	SWITCH, KEYBOARD (TUNER)
S512	1-572-184-11	(AEP,WG,IT,EE)..SWITCH, KEYBOARD(PHONO)
S512	1-572-184-11	(US,Canadian,E,EA,AUS) ...SWITCH, KEYBOARD (VIDEO/AUX)
S513	1-572-184-11	SWITCH, KEYBOARD (BAND)
S514	1-572-184-11	SWITCH, KEYBOARD (TUNING -)
S515	1-572-184-11	SWITCH, KEYBOARD (TUNING +)
S516	1-572-184-11	SWITCH, KEYBOARD (AUTO)
S517	1-572-184-11	SWITCH, KEYBOARD (MEMORY)
S518	1-572-184-11	SWITCH, KEYBOARD (NEXT ENTER)
S519	1-572-184-11	SWITCH, KEYBOARD (ST/MUTE)
S520	1-572-184-11	SWITCH, KEYBOARD (SHIFT)
S521	1-572-184-11	SWITCH, KEYBOARD (PRESET/TIMER -)
S522	1-572-184-11	SWITCH, KEYBOARD (PRESET/TIMER +)
S701	1-554-088-00	SWITCH, KEYBOARD (SYSTEM RESET)
S721	1-572-185-11	(AEP,WG,IT,EE)...SWITCH, SLIDE (ISS)
S901 ⚠	1-571-722-11	(E,EA,AUS)...SWITCH, VOLTAGE SELECTION (VOLTAGE SELECTOR)
T1	1-402-424-11	(E,EA,AUS)...COIL (ANT,SW3)
T2	1-402-346-11	(E,EA,AUS)...COIL (OSC,SW3)
T721	1-433-347-11	TRANSFORMER, BIAS OSCILLATION
T901 ⚠	1-450-055-11	(E,EA,AUS).....TRANSFORMER, POWER
T901 ⚠	1-450-056-11	(AEP,WG,IT,EE)...TRANSFORMER, POWER
T901 ⚠	1-450-057-11	(US,Canadian)....TRANSFORMER, POWER

Ref.No.	Part No.	Description
TB1	*1-537-138-31	(AEP,WG,IT,EE)..TERMINAL BOARD(ANTENNA)
TB1	1-537-238-11	(US,Canadian,E,EA,AUS) ...TERMINAL BOARD (ANTENNA)
TB801	1-537-238-11	TERMINAL BOARD (SPEAKER)
TP81	*1-568-449-11	HOUSING, CONNECTOR (PC BOARD) 3P
TP701	*1-568-449-11	HOUSING, CONNECTOR (PC BOARD) 3P
TP702	*1-568-449-11	(AEP,WG,IT,EE)...HOUSING, CONNECTOR (PC BOARD) 3P
X51	1-577-126-11	VIBRATOR, CRYSTAL (7.2MHz)
X81	1-577-075-11	OSCILLATOR, CERAMIC (456kHz)
X201	1-577-358-21	VIBRATOR, CERAMIC (4MHz)
X251	1-567-908-11	VIBRATOR, CRYSTAL (16.9344MHz)
X501	1-567-821-21	VIBRATOR, CRYSTAL (4.19MHz)
X502	1-527-997-31	VIBRATOR, CRYSTAL (32kHz)

ACCESSORY & PACKING MATERIAL

	1-465-343-11	REMOTE COMMANDER (RM-S6)
	2-181-754-11	COVER, BATTERY
	1-501-374-11	ANTENNA, LOOP
⚠	1-569-007-11	(E)....ADAPTOR, CONVERSION 2P
⚠	1-569-008-11	(EA)...ADAPTOR, CONVERSION 2P
⚠	1-555-074-00	(AUS).....CORD, POWER
⚠	1-555-234-00	(AEP,WG,IT,EA,EE)...CORD, POWER
⚠	1-556-280-00	(E).....CORD, POWER
⚠	1-575-706-00	(US,Canadian).....CORD, POWER
	3-751-669-11	(US,Canadian,AEP,E,EA,AUS) ...MANUAL, INSTRUCTION (FH)
	3-751-669-41	(AEP,WG,IT)...MANUAL, INSTRUCTION (FH)
	3-751-669-51	(EE).....MANUAL, INSTRUCTION (FH)
	*4-936-852-01	CUSHION (LOWER)(HCD)
	*4-936-853-01	CUSHION (UPPER)(HCD)
	*4-936-884-11	(E,EA).....INDIVIDUAL CARTON (FH)
	*4-936-885-11	(EXCEPT E,EA)...INDIVIDUAL CARTON (FH)

Note: The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified.	**Note:** Les composants identifiés par une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

9-955-734-11

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